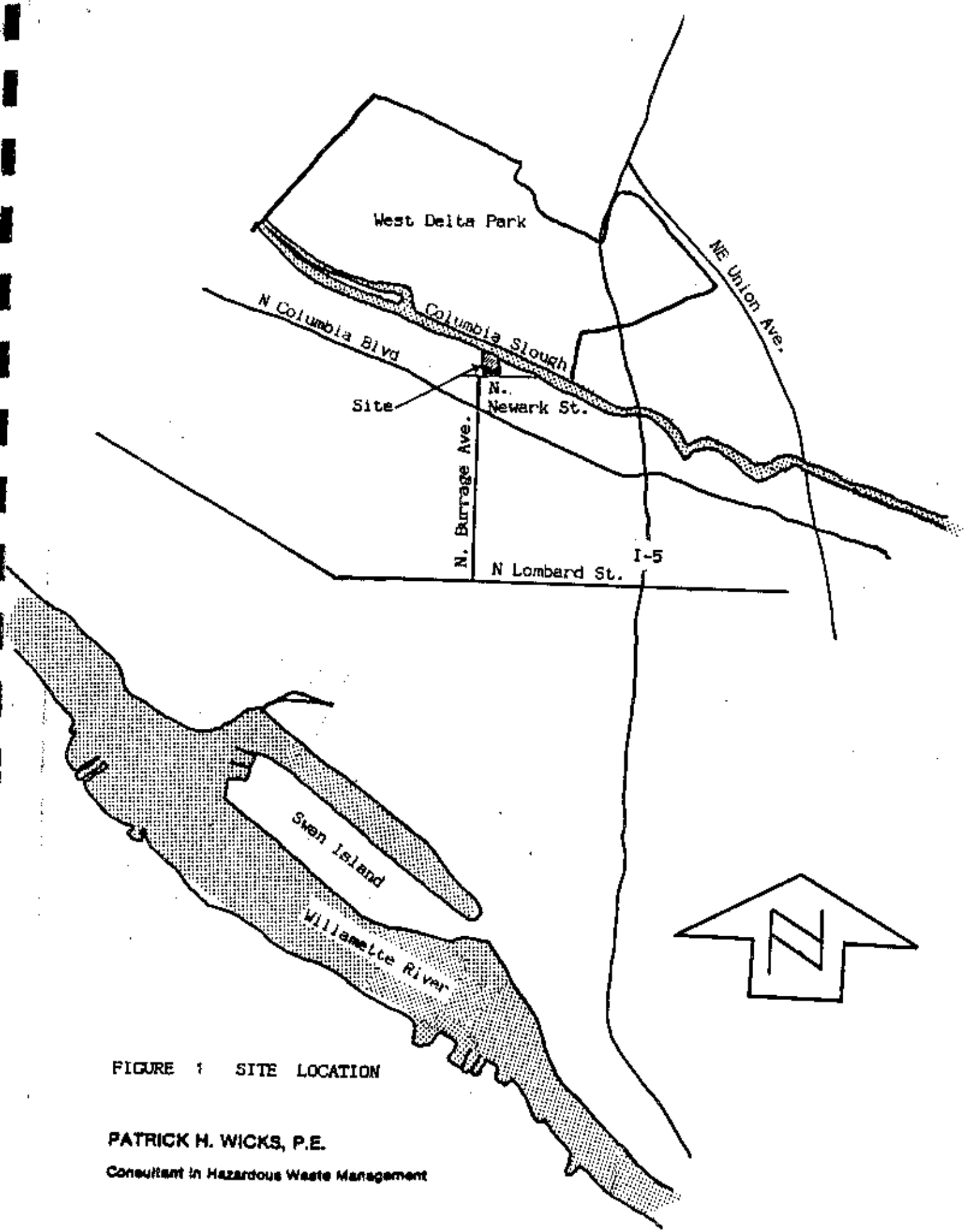

FIGURE 1 SITE LOCATION

PATRICK H. WICKS, P.E.
Consultant in Hazardous Waste Management

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA- BASEMENT UNDER OFFICE/LUNCH ROOM(COLD/SILVER RECLAIM)											
1	55	APPARENTLY CYANIDE VS. LABEL: D-SECT INSECT KILLER	RUSTED	Y ***VOLUME ?	***MARK	**SAMPLE			***	***	?
1	55	APPARENTLY CYANIDE VS. LABEL: H2O2	RUSTED	Y ***VOLUME ?	***MARK	**SAMPLE			***	***	?
2	5	UNKNOWN	PLASTIC	***VOLUME ?	***MARK	**SAMPLE			***	***	?
1	30	STERITRON WEED KILLER		***VOLUME ?	***MARK	**SAMPLE			***	***	?
0		LEAKAGE FROM 1ST DRUM ABOVE			***	CYANIDE SOLID	CYANIDE	<0.1		NO	NONE
AREA- EAST OF TRUCK WASH											
1	5	PAINT	RUSTED	***MOVE TO PAINT STORAGE AREA	***MARK				PAIN	YES	RCRA
AREA- TRANSFORMER RECLAIM (EAST OF TANK HOUSE & KILL BLDG.)											
1	30	WATER		0.67		A	NO ANALYSIS		WATE	NO	S
1	30	OIL/WATER	CRUSHED	0.38		B	PCB/3	3	OIL/WATER	NO	O R
1	55	OIL/WATER		1.00		C & DUPLICATE	PCB/2/1	270	OIL/PCB/WATER	YES	TSCA
1	30	OIL/WATER		1.00		D	PCB/3/2	410	OIL/PCB/WATER	YES	TSCA
1	30	OIL/WATER		1.00		E	PCB/3/2	200 & 190	OIL/PCB/WATER	YES	TSCA
1	30	OIL/MOSTLY WATER		0.50		F	PCB/2/1	300	OIL/PCB/WATER	YES	TSCA
1	30	WATER		0.50		G	NO ANALYSIS		WATER	NO	S
1	30	OIL/MOSTLY WATER		0.33		***SAMPLE	PCB	SAMPLE LOST			?
AREA- UNDER SHED ROOF EAST OF STOCK BARN											
1	55	UNKNOWN	RUSTED/EMPTY	0.00							SLF
1	30	OIL		0.75	V	V	PCB/2/1	360	OIL/PCB	YES	TSCA
1	30	OIL		1.00	W	W	PCB/2/3/1	530	OIL/PCB	YES	TSCA
1	30		EMPTY	0.00	REMOVE	X NO SAMPLE					
1	30	OIL		1.00	Y	Y	PCB/2/3/1	380	OIL/PCB	YES	TSCA

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA- ROADWAY NORTH OF STOCK BARNS & WEST OF SWECO LOADING DOCK											
1	55	SWEET		0.10	I	I	ON HOLD		***		
1	55	ODOR,		1.00	J	J	ON HOLD		***	NO ?	S or SLF
1	55	DARK,		1.00	K	K	PCB, OIL ?	<1	NOT OIL;NOT SOLUBLE IN ISOOCTANE	NO ?	S or SLF
1	55	WATER-		1.00	L	L	ON HOLD		***	NO ?	S or SLF
1	55	MISCIBLE?		0.50	M	M	ON HOLD		***	NO ?	S or SLF
1	30	WATER ?		0.50	N	N	PCB/2/1	4	WATER	NO	S
1	30	WATER		1.00	O	O	PCB	<1	WATER	NO	S
1	30	OIL/WATER		1.00	P	P	PCB/2/3/1	19 & 13	OIL/WATER	NO	O R
1	30	OIL/WATER		0.33	Q	Q	PCB/2/3/1	1	OIL/WATER	NO	O R
1	30	OIL/WATER		1.00	R	R	PCB/2/3/1	9	OIL/WATER	NO	O R
1	55	OIL		1.00	S	S	PCB/3	62000	OIL/PCB	YES	TSCA
1	55	OIL		1.00	T	T & DUPLICATE	PCB/3	43000	OIL/PCB	YES	TSCA
1	55	OIL		1.00	U	U	PCB	<1	OIL	NO	O R
AREA- STORAGE TANKS											
1	55	GASOLINE	RUSTED	0.50	***MARK	***SAMPLE	FLASH POINT		***	***	?
AREA- HOLDING BARN B-3											
2	55	WASTE DMSO	RUSTED	***VOLUME ?	***MARK	***SAMPLE	PER LABEL CONTENTS		***	***	?
1	55	FERRIC CHLORIDE	RUSTED, PLASTIC LINER	***VOLUME ?	***MARK	***SAMPLE	PER LABEL CONTENTS		***	***	?
2	55	UNKNOWN	RUSTED	***VOLUME ?	***MARK	***SAMPLE	PER LABEL CONTENTS		***	***	?
12	5	REFRACTORY	PLASTIC		REMOVE				REFRACTORY	NO ?	SLF
2	55	GRAY POWDER			REMOVE				REFRACTORY	NO ?	SLF
AREA- HOLDING BARN AISLE 2											
70 ?	20 ML	MANGANOUS SULFATE	SOME BROKEN	Y	***	***SAMPLE	PER LABEL CONTENTS		***	***	?
20 ?	30-50 ML	STANDARD CHLORIDE SOLN.	SOME EMPTY	Y	***	***SAMPLE	METALS, CL		***	***	?
AREA -CAGE ROOM 7/26 INVENTORY											
1	5	BONDING MORTAR- SOUND			REMOVE				BONDING MORTAR	NO ?	SLF
		OIL SPILL FROM OIL FILTER ?			***				***	***	NONE
		MISC. ELECTRICAL EQUIPMENT			REMOVE				MISC. ELEC. EQ.	NO ?	SLF
13		1"x4"x10" NiCd BATTERIES			***				NiCd BATTERIES	***	RCRA

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONT-AINERS	CON-TAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA -TANK HOUSE											
1	55	ACETONE	SOUND ?	0.33	***MARK	***SAMPLE	PCB	NO SAMPLE 7/30,BUNG RUSTED		***	?
1	55?	UNKNOWN	SOUND ?	0.75	***MARK	***SAMPLE	PCB	NO SAMPLE 7/30,BUNG RUSTED		***	?
AREA -ELECTRICAL ROOM(S. OF TANK HOUSE) AND S. THEREOF											
2	55	SODIUM HYPOCHLORITE	SOUND	NO ?	***MARK				NA HYPOCHLORITE	NO ? ***REUSE	REUSE
2	55	MINERAL OIL ? OR EDIBLE OIL	SOUND WITH ORIGINAL SEALS	NO ?	***MARK				***CONFIRM	NO ?	O R
3	5	BREAKUP - FOAMING GREASE CLEANSER	SOUND, PART FULL		***MARK				CLEANSER	NO ?	REUSE or SLF
1	5	MULTIPURPOSE- DETERGENT	SOUND, PART FULL		***MARK				DETERGENT	NO ?	REUSE or SLF
AREA -OIL SPILLS OUTSIDE BUILDINGS											
TRANSFORMER RECLAIM AREA-SOUTH SPILL AREA											
		ASPHALT				S-1	PCB/3	11	ASPHALT	NO	NONE
		ASPHALT				S-2	PCB/3	5	ASPHALT	NO	NONE
		BACKGROUND SOIL,EAST OF AREA				C-1	PCB/3	1	SOIL	NO	NONE
		ASPHALT				C-2	PCB/3	7	ASPHALT	NO	NONE
TRANSFORMER RECLAIM AREA-NORTH SPILL AREA											
		ASPHALT				S-3	PCB/3	5	ASPHALT	NO	NONE
		ASPHALT				C-3	PCB/3/2	30	ASPHALT	NO ?	NONE
		BACKGROUND SOIL,EAST OF AREA				S-4	PCB/3	2	SOIL	NO	NONE
SWECO SPILL AREA											
		ASPHALT				S-5	PCB/3	2	ASPHALT	NO	NONE
ROADWAY NORTH OF STOCK BARNS-EAST SPILL AREA											
		ASPHALT				S-6	PCB/3	290	ASPHALT/PCB	YES	TSCA
ROADWAY NORTH OF STOCK BARNS-WEST SPILL AREA											
		ASPHALT				S-7	PCB/3	440	ASPHALT/PCB	YES	TSCA
		ASPHALT				S-8	PCB/3	7400	ASPHALT/PCB	YES	TSCA
		ASPHALT				C-4	PCB/3	37	ASPHALT	NO ?	TSCA

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA -PAINT STORAGE											
						EPOXY PAINT	FLASH POINT P-M CC, DEG F	103	PAINT	YES	RCRA
AREA -SUMP WATER						***SAMPLE	PCB				
AREA -EAST LAGOON WATER						***SAMPLE	PCB				

FOOTNOTES

(1) THIS INVENTORY INCLUDES ALL MATERIALS EXCEPT THOSE IN PAINT INVENTORY.
(2) CONTENTS EXPRESSED AS A FRACTION OF FULL, I. E., 1.00 = FULL, 0.10 = 10% FULL.
(3) MATERIALS WITH SAMPLE NUMBER MARK (A,B,ETC.) NOT TO BE REMOVED DURING NON-HAZARDOUS CLEANUP, UNLESS "REMOVE" APPEARS IN THIS COLUMN. "***MARK" INDICATES THESE CONTAINERS STILL TO BE MARKED TO DESIGNATE THEY ARE NOT TO BE REMOVED, PENDING ANALYTIC RESULTS.
(4) SAMPLE NUMBERS ARE AS INDICATED. "**SAMPLE" DENOTES SAMPLES TO BE COLLECTED IN PHASE 2.
(5) FOR PCB ANALYSES RESULTS ARE FOR TOTAL PCB. THE PRIMARY PCB TYPE DETECTED IS ALSO INDICATED IN SOME CASES: 1 = PCB 1242; 2 = PCB 1254; 3 = PCB 1260.
(6) PCB ANALYTIC RESULTS FOR OIL/WATER SAMPLES ARE FOR OIL PORTION OF SAMPLE, NOT INCLUDING WATER.
(7) TYPE OF MATERIAL INDICATED IS BASED ON LABORATORY RESULTS OR OTHER INFORMATION. "***" DENOTES THAT NO IDENTIFICATION CAN BE MADE WITH EXISTING INFORMATION.
(8) INDICATION OF "YES" OR "NO" IN THIS COLUMN IS FAIRLY CERTAIN. "?" INDICATES LESS CERTAINTY. "***" DENOTES TO BE DETERMINED. "***REUSE" INDICATES CAN PROBABLY TRANSFERRED FOR REUSE AT LOW COST.
(9) RCRA = RCRA APPROVED DISPOSAL OR TREATMENT FACILITY; TSCA = TSCA AUTHORIZED DISPOSAL FACILITY; O R = OIL RECOVERY FACILITY; S = SEWER; SLF = SANITARY LANDFILL DISPOSAL OR METAL RECOVERY; REUSE = REUSE BY OTHERS; ? = CANNOT BE DETERMINED, PENDING SAMPLE RESULTS.

CT	FLASH POINT, F (1)	SOLVENTS (2)	TOTAL GALLONS	HAZARDOUS WASTE?	SUMMATION OF HAZARDOUS, NON-HAZARDOUS & UNDETERMINED WASTE (3)					PHASE 2 SAMPLES FOR FLASH POINT, P-M CC
					YES	YES?	NO	NO?	?	
500	32	TOLUENE MEK	1	YES	1	0	0	0	0	
LIP	84	XYLENE BUTYL ALCOHOL	15	YES	15	0	0	0	0	
			5	YES?	0	5	0	0	0	X
ING..	64	XYLENE MIBK	70	YES	70	0	0	0	0	
SKID			5	YES?	0	5	0	0	0	X
T A	124		6	YES	6	0	0	0	0	
NG..	80	XYLENE	5	YES	5	0	0	0	0	
	NONE		115	NO	0	0	115	0	0	
ASTE	>350		5	NO	0	0	5	0	0	
R..			96	?	0	0	0	0	96	X
..			133	YES?	0	133	0	0	0	X
			90	YES?	0	90	0	0	0	X
G			110	YES?	0	110	0	0	0	X
YL	24	XYLENE MEK MIBK	85	YES	85	0	0	0	0	
)	102	MIN.SPIRITS	120	YES	120	0	0	0	0	
	108	TOLUENE NAPHTHA BUTYL ALCOHOL	5	YES	5	0	0	0	0	
			25	?	0	0	0	0	25	X
			95	YES?	0	95	0	0	0	X

JCT E	FLASH POINT, F (1)	SOLVENTS (2)	TOTAL GALLONS	HAZARDOUS WASTE?	SUMMATION OF HAZARDOUS, NON-HAZARDOUS & UNDETERMINED WASTE (3) YES	YES?	NO	NO?	?	PHASE 2 SAMPLES FOR FLASH POINT, P-M CC
	105		63	YES	63	0	0	0	0	
5.	NONE		31	NO	0	0	31	0	0	
3.			67	NO?	0	0	0	67	0	
	109	NAPHTHA	487	YES	487	0	0	0	0	
	103 (4)	BUTYL ALCOHOL	416	YES?	0	416	0	0	0	X
			75	YES?	0	75	0	0	0	X
			50	YES?	0	50	0	0	0	X
	80	KETONE BUTYL ALCOHOL XYLOL	25	YES	25	0	0	0	0	
	98	BUTYL ALCOHOL NAPHTHA	10	YES	10	0	0	0	0	
		BUTYL ALCOHOL	5	YES?	0	5	0	0	0	
		NAPHTHA	10	YES?	0	10	0	0	0	
E	36	ISOPROPYL ALC XYLOL	10	YES	10	0	0	0	0	
E A			5	NO?	0	0	0	5	0	X
	45	TOLUENE MEK BUTYL ALCOHOL NAPHTHA	90	YES	90	0	0	0	0	
	77 73	XYLOL(XYLENE) MIBK	20	YES	20	0	0	0	0	
ECK			10	YES?	0	10	0	0	0	X
			90	?	0	0	0	0	90	X

COFFEY LABORATORIES, INC.
4914 N.E. 122nd Ave.
Portland, OR 97230
Phone: (503) 254-1794

September 24, 1985
Log #A850731-E
CORRECTED REPORT

Petko Enterprises
2871 N. Clark Ct.
Cornelius, Oregon 97113

Analyses Requested: PCB, Cyanide, and Flash Point

DRUM	SAMPLE DESCRIPTION	PCB	MAIN AROCHLOR
B	Oil & Water	3	1260
C	Oil & Water	270	1254, 1242
D	Oil & Water	410	1260, 1254
E	Oil & Water	200	1260, 1254
	Dulpicate	190	1260, 1254
F	Oil & Water	300	1254, 1242
K	Sweet Smelling Material	< 1	----
N	Sweet Smelling Material	4	1254, 1242
O	Water	< 1	----
P	Oil & Water	19	1254, 1260, 1242
	Duplicate	13	1260
Q	Oil & Water	1	1254, 1260, 1242
R	Oil & Water	9	1254, 1260, 1242
S	Oil	62,000	1260
T	Oil	43,000	1260
U	Oil	< 1	----
V	Oil	360	1254, 1242
W	Oil	530	1254, 1260, 1242
Y	Oil	380	1254, 1260, 1242
S1		11	1260
S2		5	1260
S3		5	1260
S4		2	1260
S5		2	1260
S6		290	1260
S7		440	1260
S8		7400	1260

Results in mg/kg

< denotes "less than"

THIS REPORT CONTINUES

COFFEY LABORATORIES, INC.
4914 N.E. 122nd Ave.
Portland, OR 97230
Phone: (503) 254-1794

September 24, 1985
Log #A850731-E
CORRECTED REPORT

Analyses Requested: PCB, Cyanide, and Flash Point

SAMPLE ID	CYANIDE	FLASH POINT
From Floor of By-Product Locker Room	< 0.10 mg/Kg	
Epoxy Paint Pensky Marten (closed cup)		103 degrees F

< denotes "less than"

Sincerely,

Susan M. Coffey

Susan M. Coffey,
President

SMC/gs

COFFEY LABORATORIES, INC.
4914 N.E. 122nd Ave.
Portland, OR 97230
Phone: (503) 254-1794

June 7, 1985

Log #A850522-E

Crowley Environmental
6208 N. Ensign St.
P.O. Box 17178
Portland, Oregon 97217-0178

Attention: Michael Cook

Analysis Requested: PCB

Sample Received: May 22, 1985

Date of Completion: June 7, 1985

CLIENT ID	AMT PCB'S	MAIN AROCHLOR
5050 #1 10:15	1 mg/kg	1260
5050 #2 10:30	7 mg/kg	1250
5050 #3 10:40	30 mg/kg	1260, 1254
5050 #4 10:50	37 mg/kg	1260

Spike Recovery: 112%

Sincerely,

Susan M. Coffey

Susan M. Coffey
President

SMC/gs

EPA

POTENTIAL HAZARDOUS WASTE SITE DISPOSITION

REGION: 10 | SITE NUMBER: OR D0601857 50

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Pacific Meat Co.	2701 N. Newark St	
C. CITY	**D. STATE**	**E. ZIP CODE**
Portland	OR	

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED — NO HAZARD		/			
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.)		X	X		
C. REMEDIAL ACTION NEEDED (If yes, complete Section IV.)					
D. ENFORCEMENT ACTION NEEDED (If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)					

E. RATIONALE FOR DISPOSITION / SOURCES OF INFORMATION

This property was used as a metal salvage operation. The operation was "sloppy" and numerous spills of hazardous materials occured. PCBs heavy metals and pesticides have been identified.

EPA 1000 files, DEQ file, trip report EPA 1000

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION (mo., day, & yr.)

G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
Tom Robertson	8-423-7024	9-29-87

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

This site requires a site inspection to determine if previous cleanup resolved the threat to human health. Extensive surface, soil, groundwater, sediment, sludges (Columbia Dr. Slough). Residential area nearby.

B. PROPOSED INVESTIGATIVE ACTIVITY (Detailed Information)

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo, day, & yr)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION (1)				
(2)				
(3)				
b. TYPE OF MONITORING (1)				
(2)				
c. TYPE OF SAMPLING (1)				
(2)				

EPA Form T2070-4 (10-79)

Continue On Reverse

SI - EPA

EPA POTENTIAL HAZARDOUS WASTE SITE DISPOSITION

REGION	SITE NUMBER
10	ORD053185780

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET	
Pacific Meat Company	2701 N. Newark	
C. CITY	D. STATE	E. ZIP CODE
Portland	OR	97217

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY: EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED -- NO HAZARD					
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.) "R"	X				
C. REMEDIAL ACTION NEEDED (If yes, complete Section IV.)					
D. ENFORCEMENT ACTION NEEDED (If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)					

E. RATIONALE FOR DISPOSITION / SOURCES OF INFORMATION

Removal site assessment completed. PCBs & metals in soil & sediment. Potential exists for ingestion or inhalation since site is unfenced. Evaluate under revised HRS.

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION (mo., day, & yr.)	G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
	( )	9/15/88

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

Removal program will do additional sampling. Jeff Webb is contact.

B. PROPOSED INVESTIGATIVE ACTIVITY (Detailed Information)

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo., day, & yr.)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION (1)				
(2)				
(3)				
b. TYPE OF MONITORING (1)				
(2)				
c. TYPE OF SAMPLING (1)				
(2)				

Continue On Reverse

DEBRA
FOOD

☐ REMOVAL ACTION ☒ SITE ASSESSMENT

EPA

POTENTIAL HAZARDOUS WASTE SITE SITE IDENTIFICATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OR	D050185750

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
PACIFIC MEAT COMPANY	2701 N. NEWARK				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
PORTLAND	OR	97217	MULTNOMAH		

09 DIRECTIONS TO SITE (Starting from nearest public road)
N. Burrage Ave. & N. Newark Street

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, residential, mailing)			
Charles Tindall, Benell Tindall, Randy Imes	2701 N. Newark			
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**	
Portland	OR	97217	(503) 285-2626	
07 OPERATOR (if known and different from owner)	**08 STREET (Business, residential, mailing)**			
SAME				
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**	
			( )	

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

IV. HOW IDENTIFIED

01 DATE IDENTIFIED: 10, 13, 87 (MONTH DAY YEAR)

02 IDENTIFIED BY (Check all that apply)
☐ A. CITIZEN COMPLAINT ☐ B. INDUSTRY ☒ C. STATE/LOCAL GOVERNMENT ☐ D. AERIAL RECONNAISSANCE
☐ E. RCRA INSPECTION ☐ F. SURFACE IMPOUNDMENT ASSESSMENT ☐ G. OTHER EPA IDENTIFICATION
☐ H. OTHER _____ (Specify)

V. SITE CHARACTERIZATION

01 TYPE OF SITE (Check all that apply)
☐ A. STORAGE ☐ B. TREATMENT ☐ C. DISPOSAL ☐ D. UNAUTHORIZED DUMPING ☐ E. OTHER _____ (Specify)

02 SUMMARY OF KNOWN PROBLEMS (Provide narrative description)
Salvage operations were conducted at this site between 1979 & 1981 by Mr. Peter Haney, involving gold from circuit boards, copper from transformers, and more. Several thousand gallons of surplus military paint was also accumulated on site. A clean up took place in 1985 which removed the paint and some PCB contaminated soil. Sampling results from 1988 show that PCBs, lead, zinc, and aluminum contamination remain in soil and sediment on the site.

03 SUMMARY OF ALLEGED OR POTENTIAL PROBLEMS (Provide narrative description)
Contaminants from this unfenced site could be ingested or inhaled. Groundwater is very shallow & the site is adjacent to the Columbia Slough.

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
Jeff Webb	U.S. EPA			(206) 442-1196
04 PREPARED BY	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
Bruce Jensen	E&E	TAT	(206) 624-9537	09, 15, 88 (MONTH DAY YEAR)

EPA FORM 2070-11 (7-81)

Continued From Front

III. INVESTIGATIVE ACTIVITY NEEDED and PART B - PROPOSED INVESTIGATIVE ACTIVITY (Continued)

d. TYPE OF LAB ANALYSIS				
(1)				
(2)				
e. OTHER (specify)				
(1)				
(2)				

C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B (on front & above) AS NEEDED TO IDENTIFY ADDITIONAL INVESTIGATIVE WORK.

D. ESTIMATED MANHOURS BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES	1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES
a. EPA		b. STATE	
c. EPA CONTRACTOR		d. OTHER (specify)	

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY STRATEGY (On Site & Off-Site): List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below.

1. ACTION	2. EST. START DATE (mo.,day,&yr)	3. EST. END DATE (mo.,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				$	
				$	
				$	
				$	
				$	
				$	

B. LONG TERM STRATEGY (On Site & Off-Site): List all long term solutions, e.g., containment, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. EST. START DATE (mo.,day,&yr)	3. EST. END DATE (mo.,day,&yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				$	
				$	
				$	
				$	
				$	
				$	

C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES	1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES
a. EPA			b. STATE		
c. PRIVATE PARTIES			d. OTHER (specify)		

TECHNICAL ASSISTANCE TEAM

SITE ASSESSMENT
FINAL REPORT FOR:

PACIFIC MEAT COMPANY
PORTLAND, OREGON

TDD T10-8710-010

REPORT PREPARED BY: ECOLOGY AND ENVIRONMENT, INC.
PROJECT MANAGER: BRUCE JENSEN
DATE: AUGUST 1988

SUBMITTED TO CARL G. KITZ, DEPUTY PROJECT OFFICER
SUPERFUND RESPONSE AND INVESTIGATIONS SECTION
U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION X
SEATTLE, WASHINGTON

ecology and environment, inc.
101 YESLER WAY, SEATTLE, WASHINGTON, 98104, TEL. 206/624-9537
International Specialists in the Environment

ABSTRACT

Pursuant to Technical Direction Document T10-8710-010, the Ecology and Environment, Inc. Technical Assistance Team conducted a site assessment at Pacific Meat Company in Portland, Oregon, where a metal recovery operation had been located for several years. The assessment was designed to determine whether a non-superfund cleanup performed in 1985 had adequately removed contamination from the site.

Soil and sediment samples were collected from eleven locations. Results indicated that areas of contamination still exist at Pacific Meat Company. PCB concentrations were found as high as 145 ppm, lead levels were discovered up to 2485 ppm, and arsenic was found at 93 ppm in one soil sample.

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LIST OF FIGURES

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SITE ASSESSMENT REPORT
PACIFIC MEAT COMPANY
PORTLAND, OREGON
T10-8710-010

Site Name/Address:

Pacific Meat Company
2701 N. Newark
Portland, Oregon

Investigation Participants:

Bruce Jensen, TATM-Environmental Engineer, E&E, Seattle, WA
(206) 624-9537

Doug Gresham, TATM-Chemist, E&E, Seattle, WA
(206) 624-9537

Persons Contacted

Charles Tindall, Co-owner, Pelletrox Inc., Portland OR
(503) 285-2626

Benell Tindall, Co-owner, Pelletrox Inc., Portland OR
(503) 285-2626

Date of Site Assessment:

May 19, 1988

1.0 INTRODUCTION

Pacific Meat Company (PMC), a meat rendering company was located on this site for more than 40 years before going out of business in 1978. A metal salvaging operation was then located on the same property for several years until 1981. The operation was suspected of generating hazardous wastes including PCBs and heavy metals. Organic solvents, cyanides, and paints were also suspected of being contained in drums and cans on site.

In 1985 the property owner, Pacific Western Bank, initiated a non-superfund cleanup of the property which was performed by Riedel Environmental Services. The results of this action were never reported to the Environmental Protection Agency (EPA) or the Oregon Department of Environmental Quality (DEQ).

In October 1987 the EPA Region X Superfund Response and Investigations Section (SRIS) tasked the Ecology and Environment, Inc. (E&E) Region 10 Technical Assistance Team (TAT) to conduct a site assessment at PMC under Technical Direction Document (TDD) T10-8710-010. The purpose of the assessment was to determine the extent of PCB and metal contamination and the need for further removal action.

2.0 OWNER/OPERATOR

PMC owned and operated a meat rendering business at this site until 1978 when their plant was closed and Pacific Western Bank assumed ownership.

Then the facility was operated by Peter Haney, a metal salvager, for several years. Mr. Haney (now deceased) was also associated with other contaminated sites around the Portland area. He and his associates did business as Northwest Cast Metal Products, Inc., Broad Spectrum Electronics, M and H Smelting and Refining, Northwest Cast/Universal Silver, and Auric Enterprises.

In 1986, after a non-superfund cleanup, the property was sold to Charles and Benell Tindall and Randy Imes, who had been operating a business on the adjacent property at 2606 N. Newark.

3.0 LOCATION

PMC is located in the NE 1/4 NE 1/4 NW 1/4, sec. 9, T. 1 N., R. 1 E., in Multnomah County, Oregon. The site address is 2701 N Newark Street, Portland, Oregon (see Figure 1).

4.0 DESCRIPTION OF SITE AND SURROUNDING AREA

PMC is located north of North Newark Street and south of the Columbia Slough. The 6.3 acre site consists of an asphalt parking lot, a series of interconnected buildings associated with the original meat rendering business, and a raised dike area behind the buildings that contains two settling ponds (See Figure 2).

The adjacent properties and most of those north of North Columbia Boulevard are industrial, while the properties to the south of North Columbia Boulevard are primarily residential. The nearest school is located approximately 3/4 mile to the south.

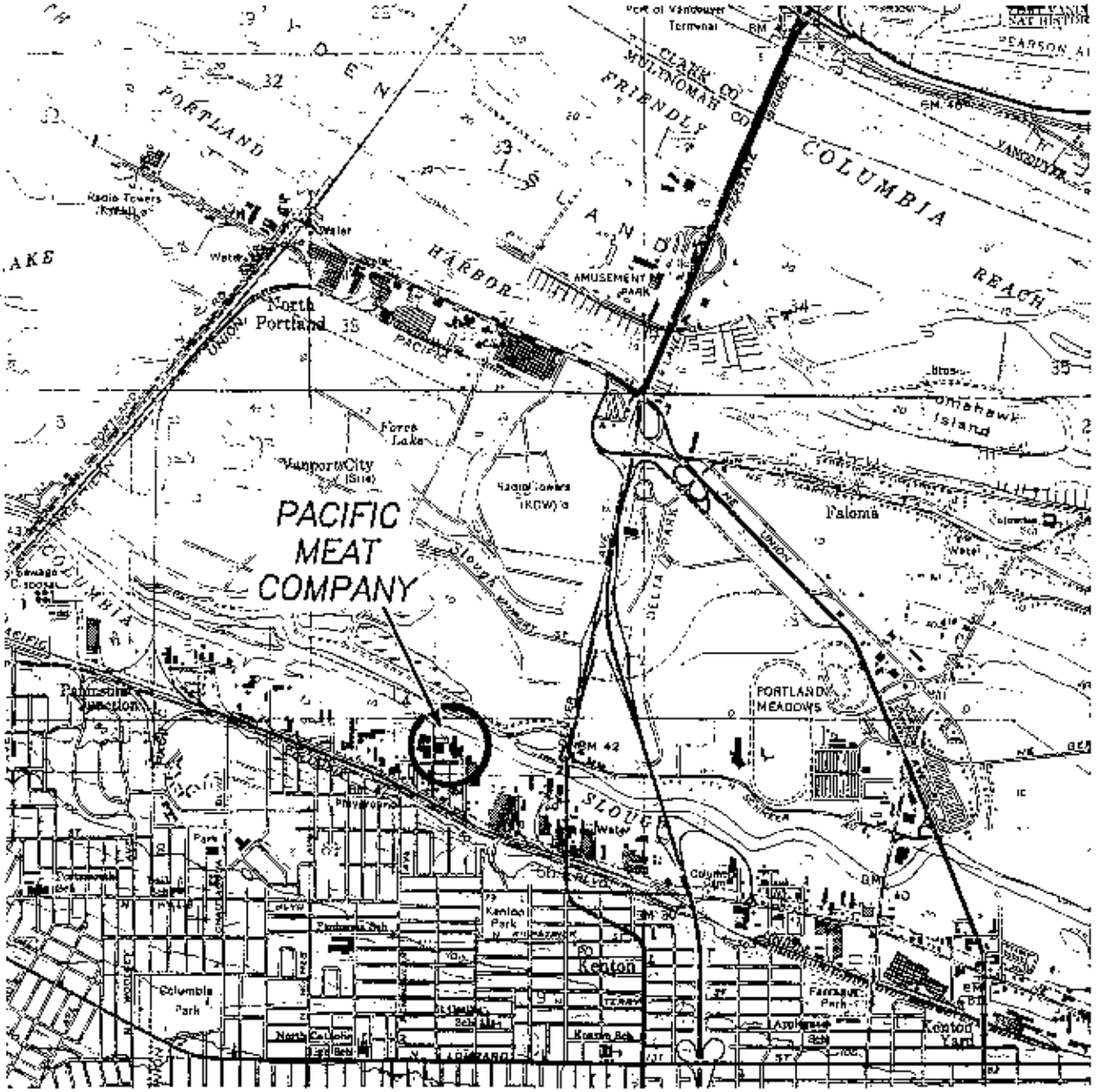
5.0 TOPOGRAPHY AND DRAINAGE

The PMC site slopes gently (< 5 percent) toward the Columbia Slough. Between the PMC buildings and the slough is a raised dike area. Surface water run-off from the buildings and asphalt parking area is collected in an underground storm drainage system, which drains to the north under the dike into the Columbia Slough.

6.0 GEOLOGY/HYDROLOGY

PMC is located on the Columbia River Flood Plain physiographic subarea. The Columbia River Flood Plain is underlain by recent to quaternary age alluvium, informally referred to as younger alluvium. The younger alluvium is in turn underlain by the Troutdale Formation from the early Pliocene (Hogenson, 1965).

The younger alluvium is less than 200 feet thick. The upper part is mostly fine sand, silt and clay and generally does not yield large



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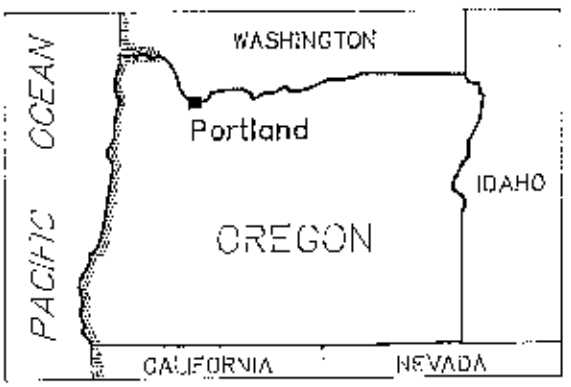

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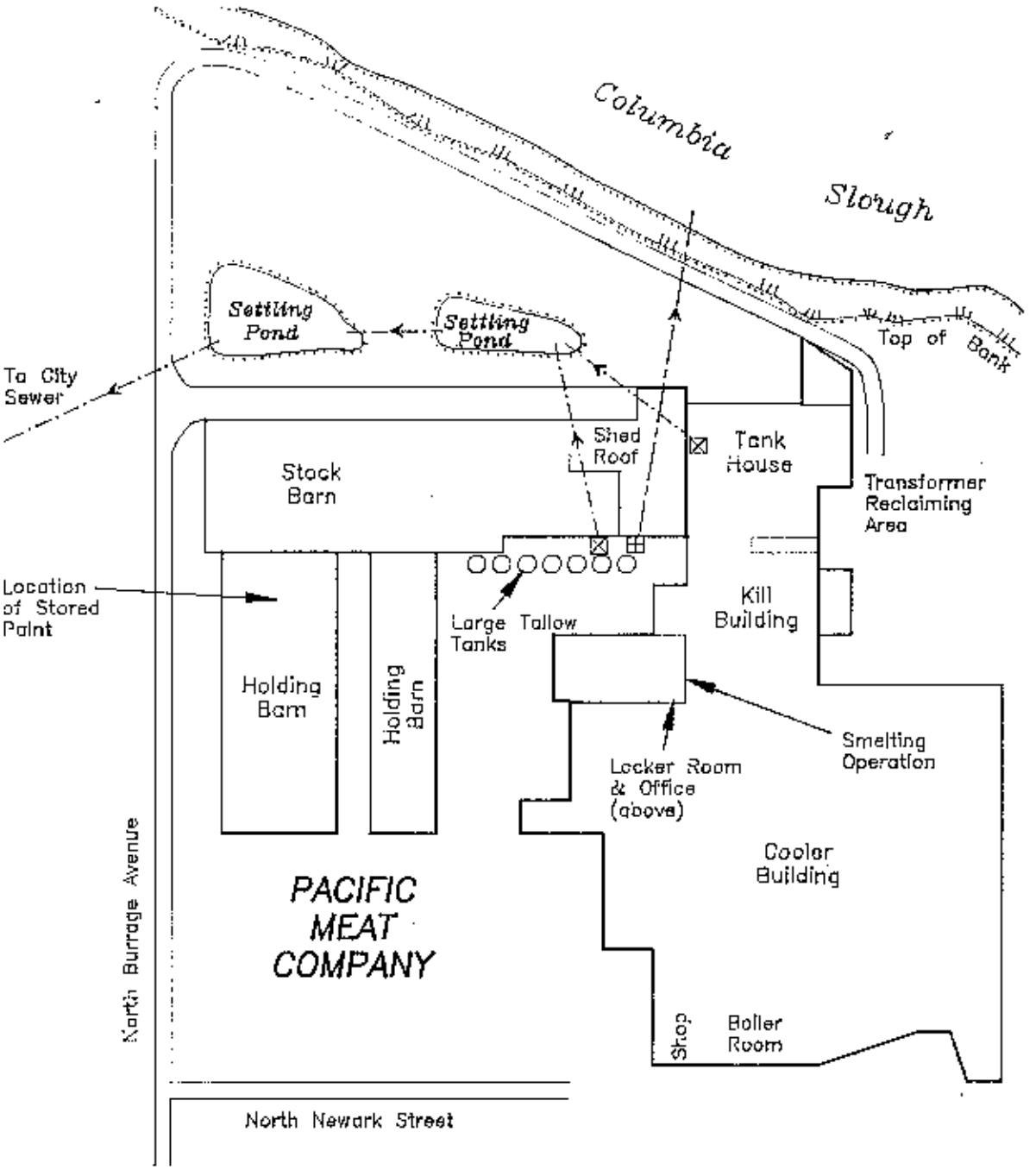
Job: 110-8710-010	Waste Site: OR 0195
Drawn by: D. P.	Date: July 18, 1988

FIGURE 1
LOCATION MAP
PACIFIC MEAT COMPANY
Portland, OR



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N

LEGEND

- ⊠ Sump to settling ponds, then sewer
- ⊞ Storm water sump to Columbia Slough
- —·—◄— Drainage and flow to city sewer
- — — ◄— Drainage and flow to Columbia Slough

ecology & environment, inc.	
Job: T10-8710-010	Waste Site: OR 0198
Drawn by: G. P.	Date: Sept. 14, 1988

FIGURE 2
SITE MAP
PACIFIC MEAT COMPANY
Portland, OR

Source: Patrick Wicks, P.E.

quantities of water. Below 100 feet the alluvium contains more abundant and continuous layers of sand and gravel that are capable of yielding large quantities of water. Wells more than 100 feet deep which penetrate the lower part of the younger alluvium report yields from several to more than 1,000 gallons per minute (gpm)(Hogenson, 1965).

Most wells in the vicinity of the site are less than 113 feet deep. The wells are typically screened in gravel layers at a depth of 50 feet or more. The well yields range from 75 to 2,000 gpm (Hogenson, 1965).

Generally the ground water in the alluvium is in direct hydraulic balance with the water in the Columbia River. The ground water discharges to the river during periods of low flow and is recharged by the river during flood stages (Hogenson, 1965).

The Troutdale Formation underlying the recent alluvium has been identified as one of the major aquifers in the Portland area. The formation is typically well indurated and predominantly composed of coarse grained clastic sediments (cobbles, gravels, sands, etc.). The Troutdale Formation is considered to be confined on a regional hydrogeologic scale (Hogenson, 1965).

7.0 WATER USE

The city of Portland supplies drinking water to the area from the central municipal water supply system.

Ground water in this area of Portland has been developed generally for industrial purposes. The nearest well is located on neighboring property at the corner of North Columbia Blvd. and Burrage and is in a shallow aquifer, 60 feet deep.

The nearest surface water is the Columbia Slough, abutting the property to the north, which is used for recreation, industry, and agriculture. There are no recorded surface water rights in the area.

8.0 OVERVIEW OF SITE OPERATIONS

There have been three different owner/operators at the Pacific Meat Company site, and different site activities associated with each (DEQ, 1987).

The original owners were the Pacific Meat Company. During their tenure on the property, the problems did not involve hazardous chemicals, but were related to the eutrophication of the Columbia Slough from the meat rendering wastes. The settling ponds in back of the property were built to provide primary waste treatment (See Figure 2). These ponds originally drained into the Columbia Slough, but in 1971 they were connected to the sanitary sewer under North Columbia Blvd. (Personal communication, August 8, 1988).

The contaminants of concern at this site were probably introduced by the second owner/operator, Peter Haney. Between 1979 and 1982 Mr. Haney operated a metal recovery business. He is suspected of dumping

transformer oil containing PCBs and burning the coils to recover the copper. He also ran a smelter and plating facility which produced heavy metal wastes including lead, mercury, antimony, cadmium, arsenic, and aluminum. Cyanide was used as part of the process to recover gold from circuit boards. Additionally, Mr. Haney had thousands of gallons of military surplus paints which were stored in the western holding barn (see Figure 2)(DEQ, 1987).

The current owners/operators are Charles and Benell Tindall and Randy Imes, who run a trucking business called Pelletrox Inc. They have subleased many parts of the property to other businesses, including tire recapping, oil recycling, salt recovery, fish meal storage, meat distribution, and plastering (see Figure 3).

9.0 SITE ASSESSMENTS

9.1 Previous Assessments

Pacific Meat Company was investigated as early as 1970 by the Multnomah County Health Department for discharging meat rendering wastes into the Columbia Slough (DEQ, 1987).

Mr. Haney was investigated at this site as well as several others by the Oregon Department of Environmental Quality (DEQ) and the EPA for practices such as open burning of oil impregnated insulation on transformer coils to recover copper windings, and other illegal metal salvaging activities (DEQ, 1987).

A Preliminary Assessment of the PMC site was produced by the DEQ in September 1987. It includes a report by Patrick Wicks, P.E. titled "Evaluation of Potential Hazardous Materials Contamination and Cleanup Plan at Pacific Meat Company in Portland Oregon", dated September 1985 (DEQ, 1987). Results of sampling conducted by Mr. Wicks are presented in Figure 4.

9.2 E&E Assessment

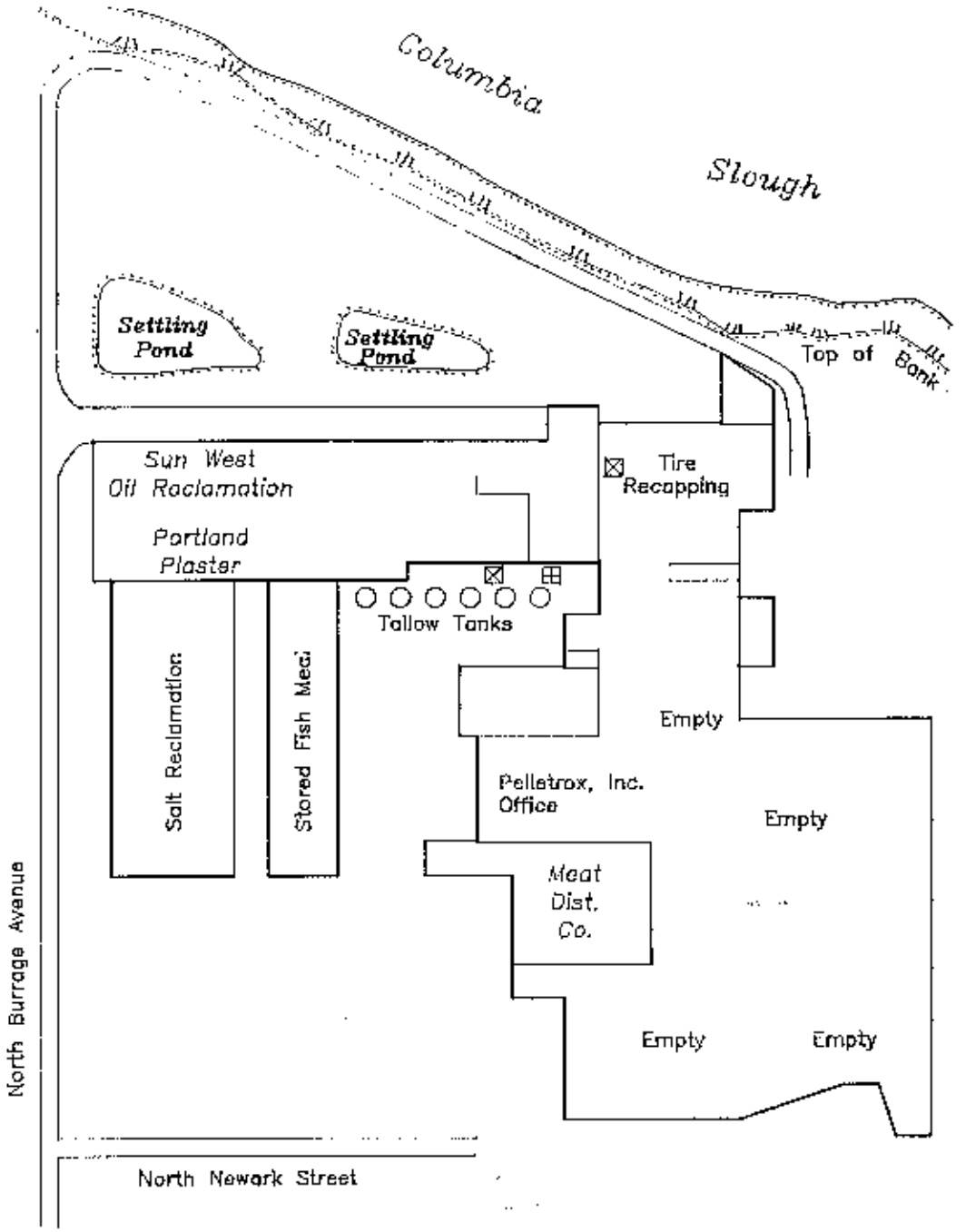
9.2.1 Observations

The site appeared to have been cleaned up since it was vacated by Peter Haney. The thousands of gallons of paint in the holding barn area had been removed and large piles of salt and fish meal were currently being stored there (photos 14, 15). The room that had previously contained a smelter now was empty except for an antique car (photo 7). North of the stock barn two strips of asphalt had been removed from the roadway (photo 3). The settling ponds had been filled in and reduced to approximately one third of their former size (photos 10,11).

Photographs taken during the investigation are found in Appendix A.

9.2.2 Sampling Program

Because a removal had been performed at PMC, the objective of the site assessment was to collect soil and sediment samples to determine



LEGEND

- ⊠ Sump to settling pond then sewer
- ⊞ Storm water sump to Columbia Slough

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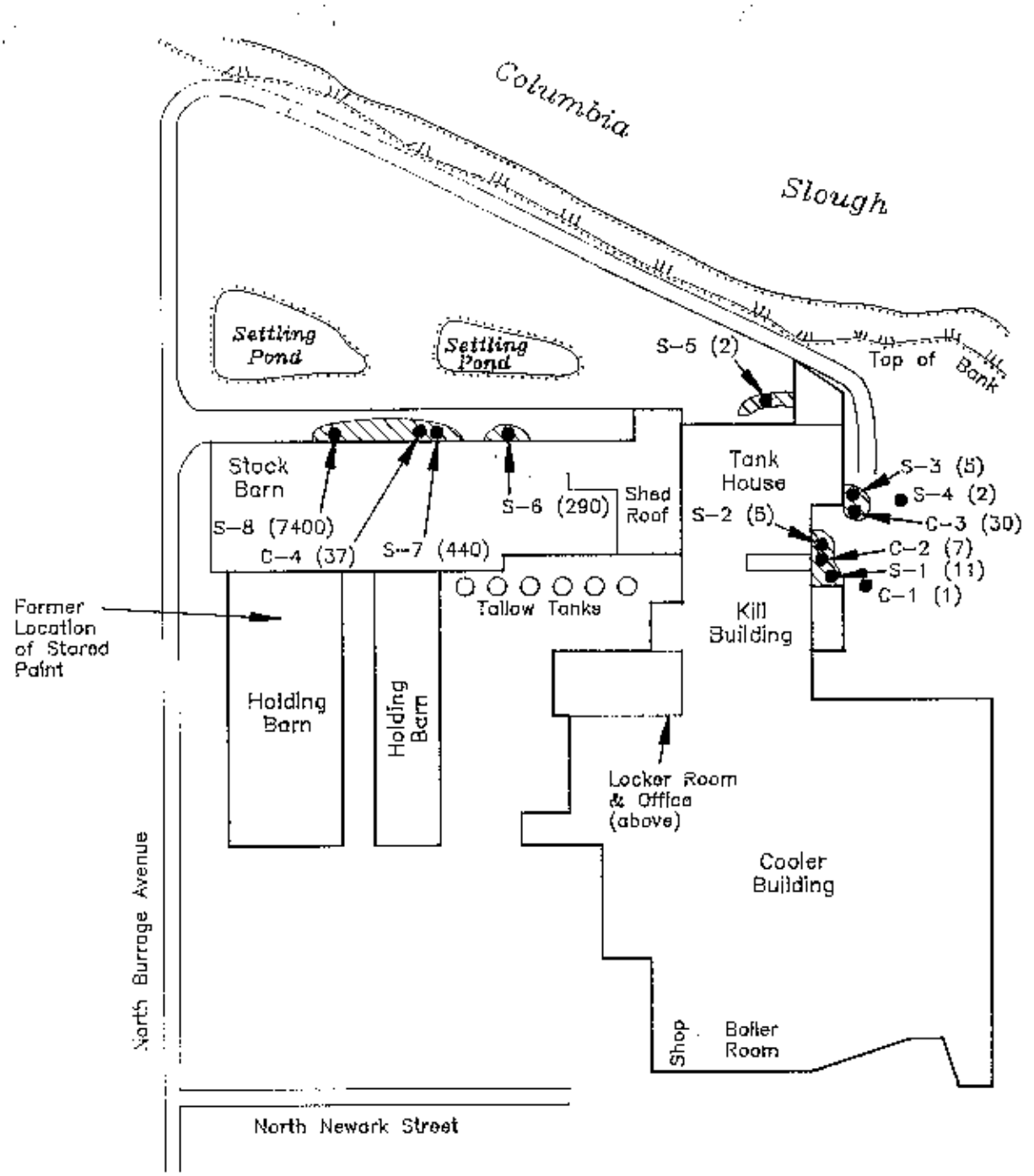
Job: T10-8710-010	Waste Site: OR 0195
Drawn by: D. P.	Date: Sept. 14, 1988

FIGURE 3
CURRENT SITE USAGE
PACIFIC MEAT COMPANY
Portland, OR

Source: Patrick Wicks, P.E.



LEGEND

- ● Approximate spill area
- ▨ Sample location
- C-1,S-1 Sample numbers
- (11) PCB concentration, ppm

ecology & environment, inc.	
Job: 710-8710-010	Waste Site: OR 0195
Drawn by: D. P.	Date: Sept. 14, 1988

Source: Patrick Wicks, P.E.

FIGURE 4
PREVIOUS SAMPLING RESULTS
PACIFIC MEAT COMPANY
Portland, OR

whether the PCB and heavy metal contamination at this site had been adequately removed.

To accomplish this, samples were taken in the following areas:

- o Areas of previous contamination where soil had been removed;
- o Sediments in sumps under buildings;
- o Sediments in the settling ponds;
- o Sediments in the Columbia Slough at storm sewer outfalls; and
- o Other areas containing stained soil or stressed vegetation.

The samples were analyzed for PCBs, arsenic, lead, mercury, zinc, and aluminum. Sample locations are presented in Figure 5.

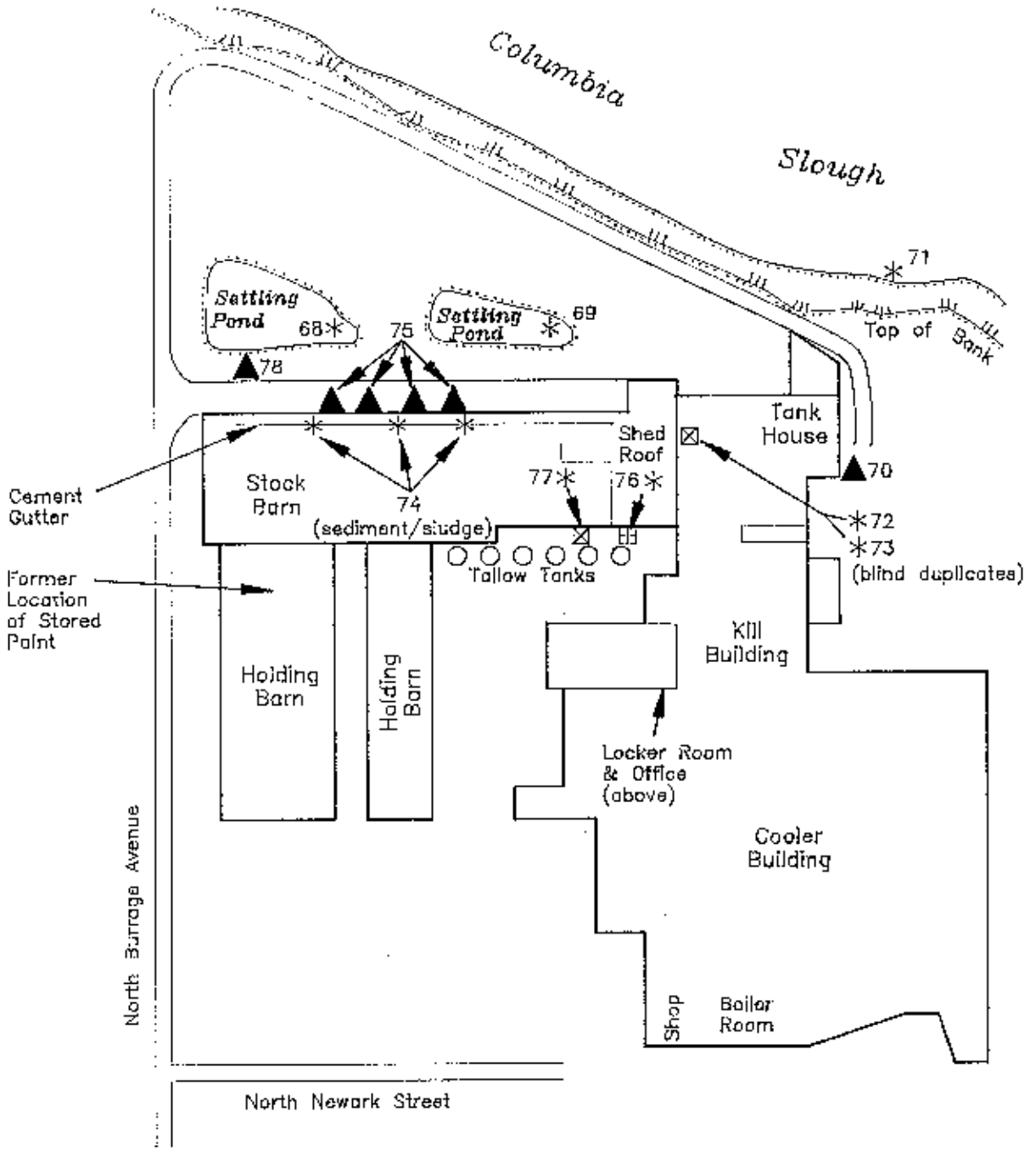
Areas where contamination had previously been located included the roadway north of the stock barn (photo 3), and the area east of the tank house (photo 2). A composite sample (T8050475) was collected where the asphalt had been removed north of the stock barn, and a discrete soil sample (-70) was collected from stained soil east of the tank house (photo 12).

Wastes from Mr. Haney's smelting operation inside the locker room area were collected in underdrains that led to a sump under the tank house (photo 8). The contents of the sump were periodically pumped into the eastern settling pond (photo 11). Overflow from this pond went to the western settling pond (photo 10) and then into the Columbia Slough. Blind duplicate sediment samples (-72 and -73) were collected from the sump and discrete samples (-68 and -69) were collected from both settling ponds. Repeated attempts were made to locate the outfall from the ponds to the slough, however a steep bank covered with dense blackberries made its location impossible.

Two other sumps were located north of the large tallow tanks (photo 5). The western sump collected wastes from the tallow tanks, stock barn and holding barns and was also pumped into the settling ponds (see Figure 2). The eastern sump collects storm water runoff from the parking lot and drains directly to the Columbia Slough. Sediment samples from both of these sumps were collected (-76 and-77).

One storm sewer outfall to the Columbia Slough was located near the eastern edge of the property. This outfall apparently drains a portion of the PMC site as well as the adjacent property to the east. A sample (-71) of the sediments below this outfall was collected.

A cement gutter that originally collected liquid wastes from cattle is located on the north side of the stock barn (photo 13). It flows east along the wall and then turns south and runs under the building, probably into the the sump behind the tallow tanks, before being pumped into the settling ponds. Sun West Oil has a tank with a valve and opening just above the gutter, presumably for loading or unloading oil (photo 13). During the site visit a bucket had been hung from the valve to collect drips. The sediment in the concrete gutter appeared stained and oily and so a composite sample (-74) was collected.



LEGEND

- ✳ Sediment sample and sample number
- ⊠ Sump to settling ponds
- ⊞ Sturm water sump to Columbia Slough
- ▲78 Surface soil sample & sample number

ecology & environment, inc.	
Job: T10-8710-010	Waste Site: OR 0195
Drawn by: D. P.	Date: Sept. 14, 1988

FIGURE 5
SAMPLE LOCATION MAP
PACIFIC MEAT COMPANY
Portland, OR

Source: Patrick Wicks, P.E.

Although none of the soil on site can be assumed to be undisturbed, a background soil sample (-78) was collected from the slope of the dike area behind the stock barn.

10.0 RESULTS

Samples were collected, handled and analyzed, and results were reported per the TAT Sampling Plan/Quality Assurance Project Plan (E&E, 1988). A quality assurance review of the analytical results performed by E&E TAT chemists is presented in Appendix B. In general, the data were judged to be acceptable, except when flagged with qualifiers which modified the usefulness of the individual value.

The highest levels of PCBs were found in the roadway north of the stock barn (sample -75, 72 ppm) and in sediment from the cement gutter on the north edge of the stock barn (sample 74, 145 ppm). Sediment from this same concrete gutter contained the most concentrated levels of mercury (5 ppm), and zinc (5126 ppm). The highest lead levels were found in the sump under the tank house (sample -73, 2485 ppm). The highest concentration of arsenic (93 ppm) was found in the "background" sample (-78) north of the stock barn. Zinc was detected at concentrations greater than 1000 ppm in six samples (-68, -69, -72, -73, -74, -75).

Samples -72 and -73 were blind duplicates from the sump under the tank house. The analytical results showed a correlation in concentrations of lead, aluminum, and zinc between the samples. However, mercury was reported as 2.99 ppm in sample -72 yet was undetected in -73.

Sampling results are presented in Table 1.

11.0 SUMMARY

PMC is located on a 6.3 acre site at 2701 North Newark Street in Portland, Oregon. The site consists of an asphalt parking lot, a series of interconnected buildings associated with the original meat rendering business, and a raised dike area behind the buildings that contains two settling ponds. The adjacent properties and most of those north of North Columbia Boulevard are industrial, while the properties to the south of North Columbia Boulevard are primarily residential. The nearest school is located approximately 3/4 mile to the south.

In 1985 a non-superfund removal was performed at this site and, therefore, the objective of this site assessment was to collect soil and sediment samples to determine whether the PCB and heavy metal contamination had been adequately removed.

To accomplish this, samples were taken in the following areas:

- Areas of previous contamination where soil had been removed;
- Sediments in sumps under buildings;

TABLE 1
SUMMARY OF SAMPLING RESULTS
FOR PCB, ARSENIC, LEAD, MERCURY, ZINC, AND ALUMINUM ANALYSES
Pacific Meat Company
Portland, Oregon
May 19,1988
(mg/kg (ppm))

Sample	PCB	As	Pb	Hg	Zn	Al
T8050468	1.0U	0.1U	213	.05U	1179	5994
-69	4.2	0.1U	522	.05U	2894	11342
-70	22.1	0.1U	109	.05U	89	4976
-71	1.2	0.1U	464	.05U	156	11112
-72	8.5	0.1U	1880	2.99J	3274	7123
-73	11.0	0.1U	2485	.05U	4239	7863
-74	145.0	0.1U	508	5.00J	5126	10879
-75	72.0	2.5	513	1.51J	2096	9641
-76	.4	0.1U	282	.05U	273	9589
-77	.6	0.1U	117	.05U	205	3301
-78	0.2U	93.3	46	.05U	127	17236

Notes:

1. Refer to Figure 5 for sample locations.
2. U indicates this analyte was analyzed for but not detected. Reported value is the detection limit.
3. J indicates an estimated quantity because the reported concentration did not meet quality control criteria.

- o Sediments in the settling ponds;
- o Sediments in the Columbia Slough at storm sewer outfalls; and
- o Other areas containing stained soil or stressed vegetation.

PCB and metals contamination was found to still exist at Pacific Meat Company. PCB contamination levels ranged as high as 145 ppm. The highest metals concentrations were: lead 2485 ppm, mercury 5 ppm, arsenic 93.3 ppm, and zinc 5126 ppm. The analytical results of a blind duplicate showed a correlation between the samples for aluminum, lead, and zinc, but not mercury.

REFERENCES

1. Ecology and Environment, Inc. May, 1988. **Pacific Meat Company Work Plan/QA Plan.**

2. Hogenson, G. M., and Foxworthy, B. L. 1965. **Ground Water in the East Portland Area, Oregon.** U.S. Government Printing Office, Washington D.C.

3. Oregon Department of Environmental Quality. September 18, 1987. **Preliminary Assessment: Pacific Meat Company (dba Northwest Cast Metal Products, Inc.) OR D050185750 2701 N. Newark Street Portland, Oregon.** Remedial Action Section, Portland, Oregon.

4. Personal Communication. August 8,1988. Telephone conversation between Bruce Jensen, TAT Environmental Engineer, and Charles Tindall, Co-owner of Pelletrox Inc.

APPENDIX A

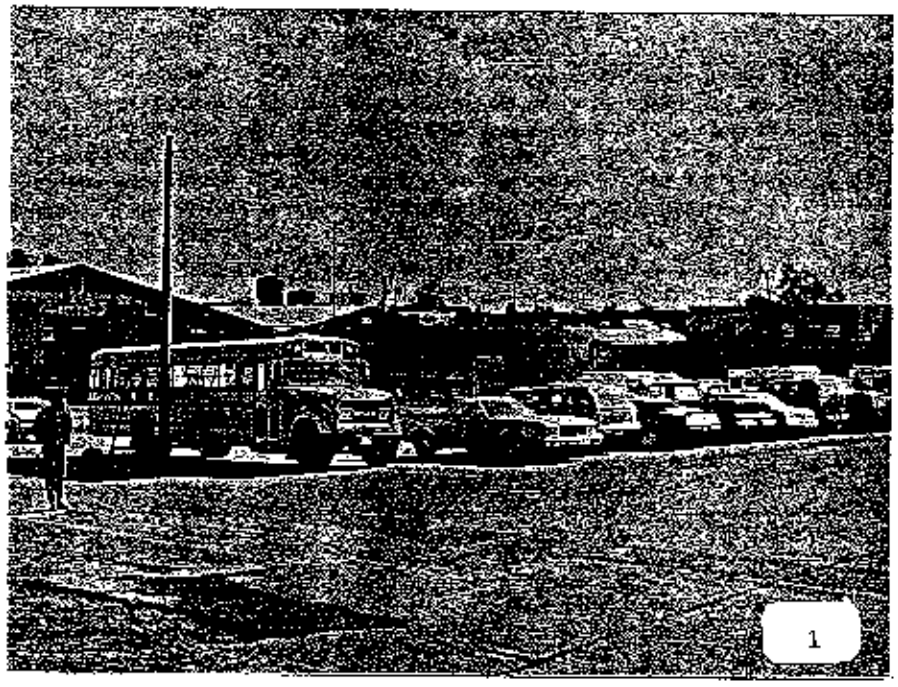
PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH IDENTIFICATION SHEET

Camera Type: Minolta
Lense Type: 50mm

TDD No.: T10-8710-010
Site Name: Pacific Meat Co.

Photo No.	Date	Time	Taken by	Description
1	5/19/88	0905	Jensen	Looking NE at facility
2	5/19/88	1034	Jensen	Looking SW at facility
3	5/19/88	1100	Jensen	Looking W along road behind stock barn
4	5/19/88	0925	Jensen	Looking N at tallow tanks
5	5/19/88	0927	Jensen	Sumps behind tallow tanks
6	5/19/88	0929	Jensen	Looking E in smelting room
7	5/19/88	0931	Jensen	Looking N in smelting room
8	5/19/88	1115	Jensen	Sump under shed roof
9	5/19/88	1035	Jensen	Looking W behind facility toward settling ponds
10	5/19/88	0940	Jensen	Western settling pond
11	5/19/88	1015	Jensen	Eastern settling pond
12	5/19/88	0950	Jensen	Area of stained soil E of tank house
13	5/19/88	1145	Jensen	Cement gutter N of stock barn
14	5/19/88	0920	Jensen	Fish meal in E holding barn
15	5/19/88	0915	Jensen	Reclaimed salt in W holding barn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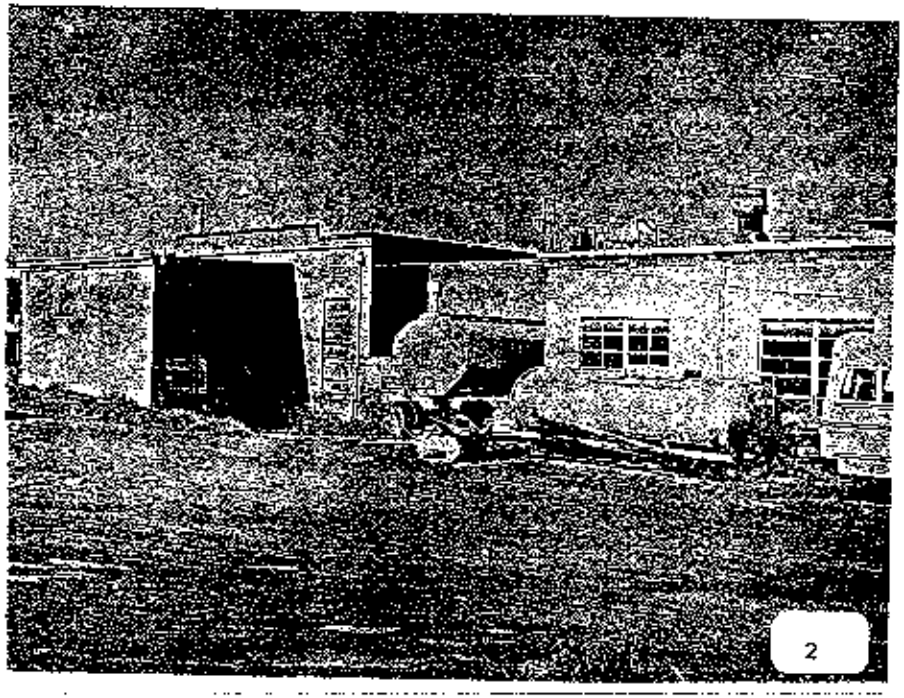
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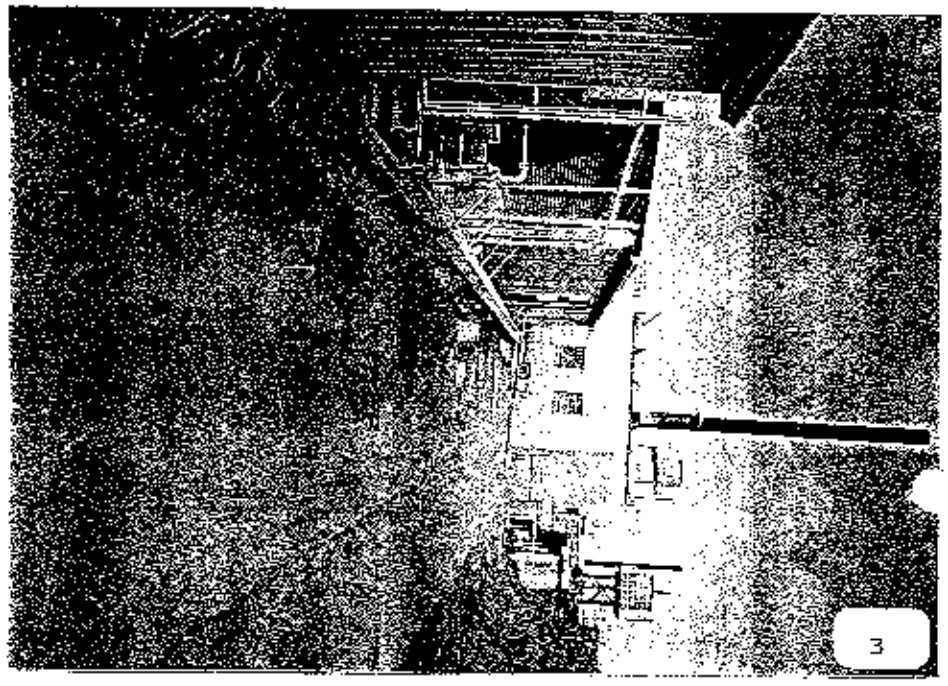
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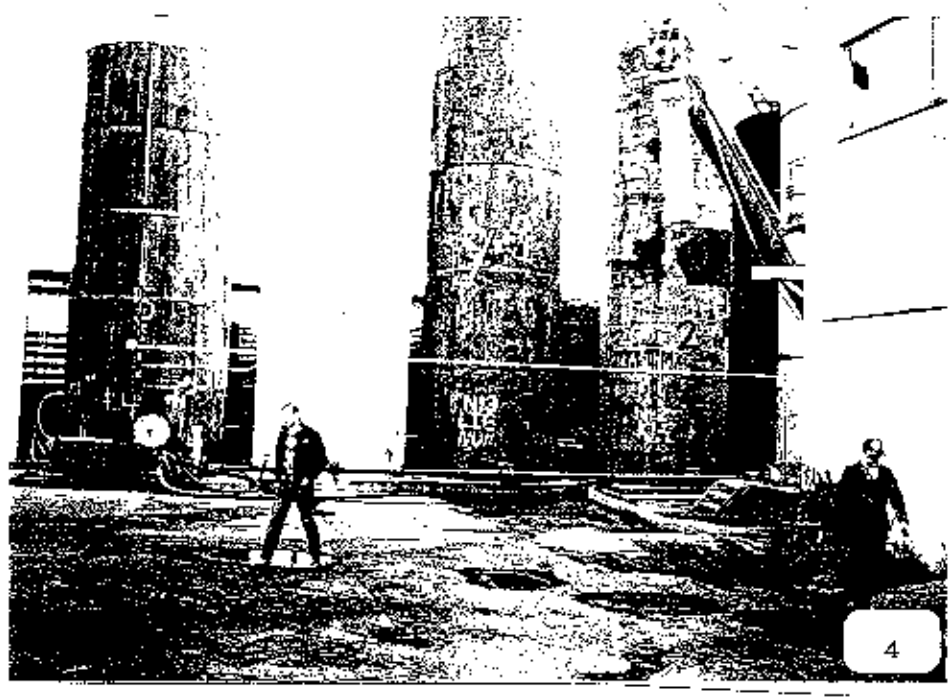
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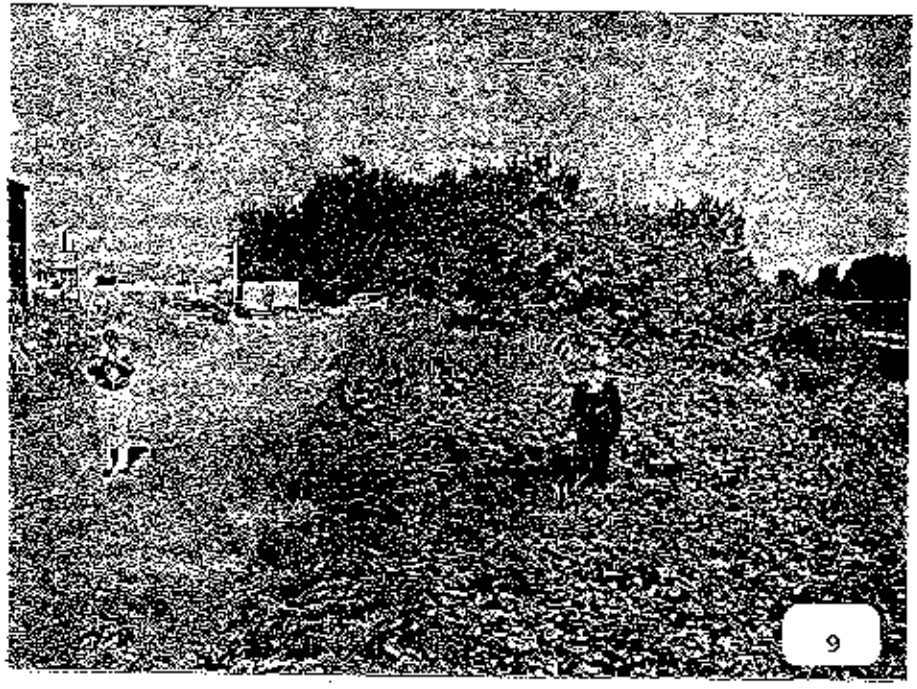
5

6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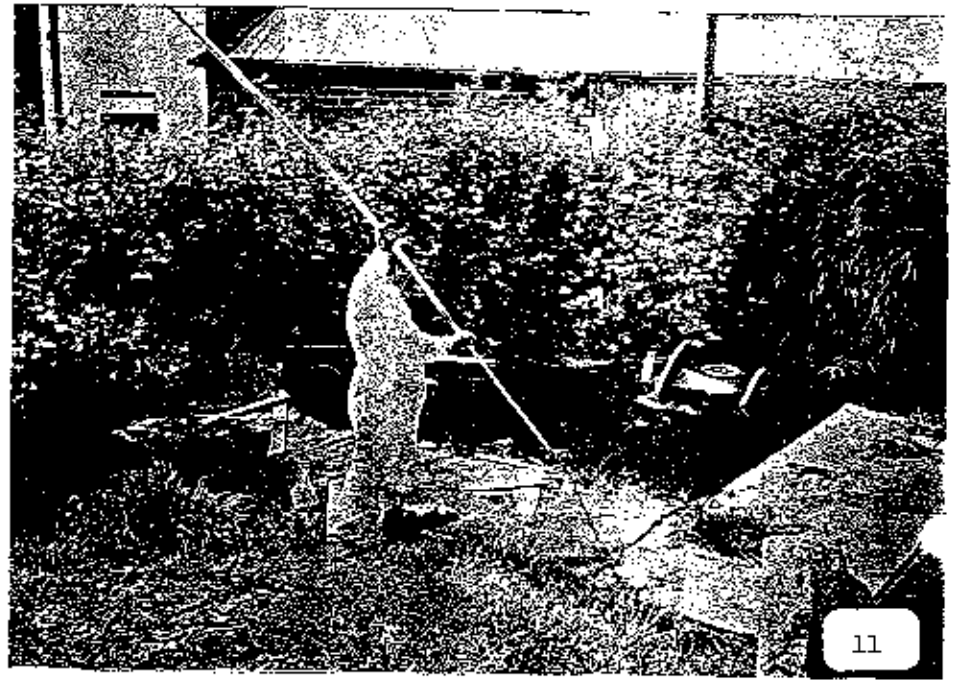
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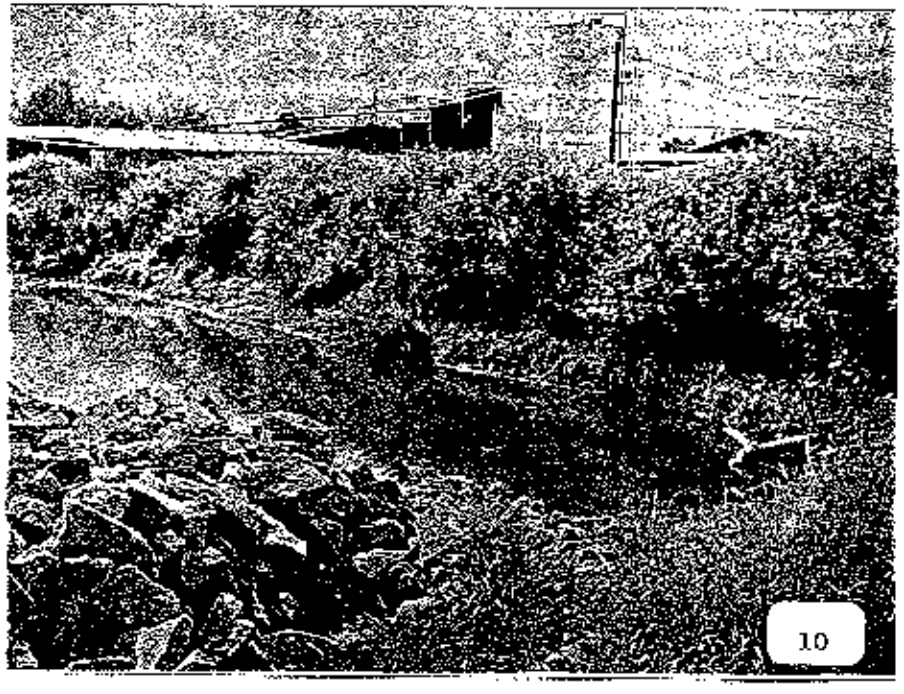
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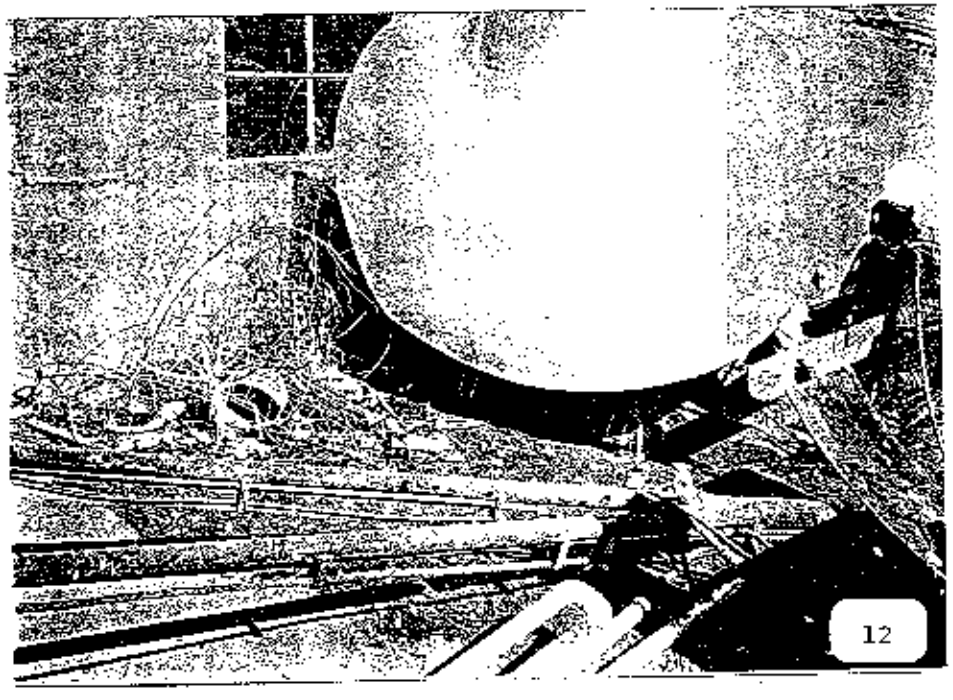
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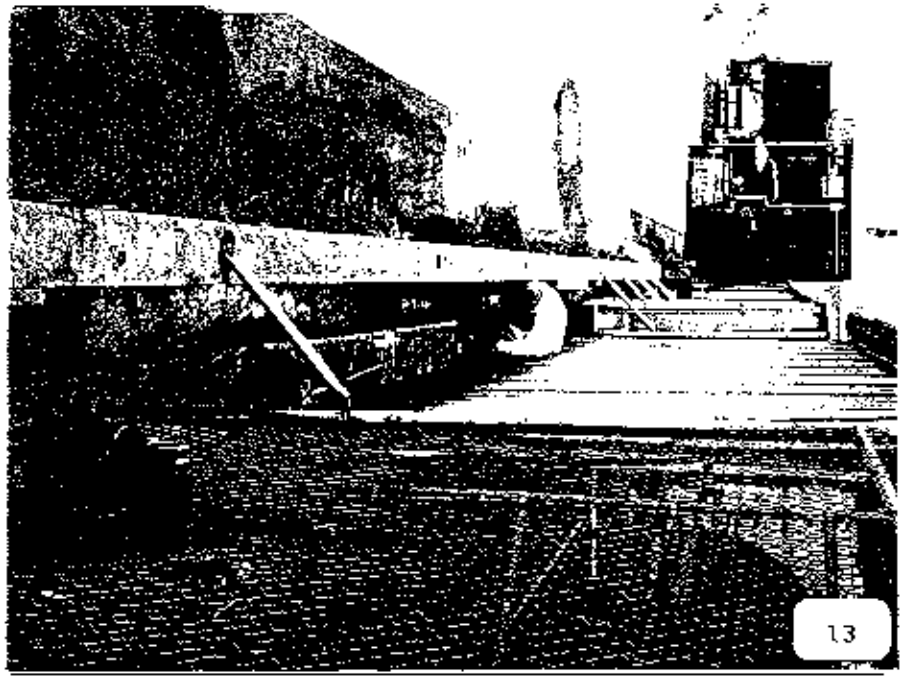
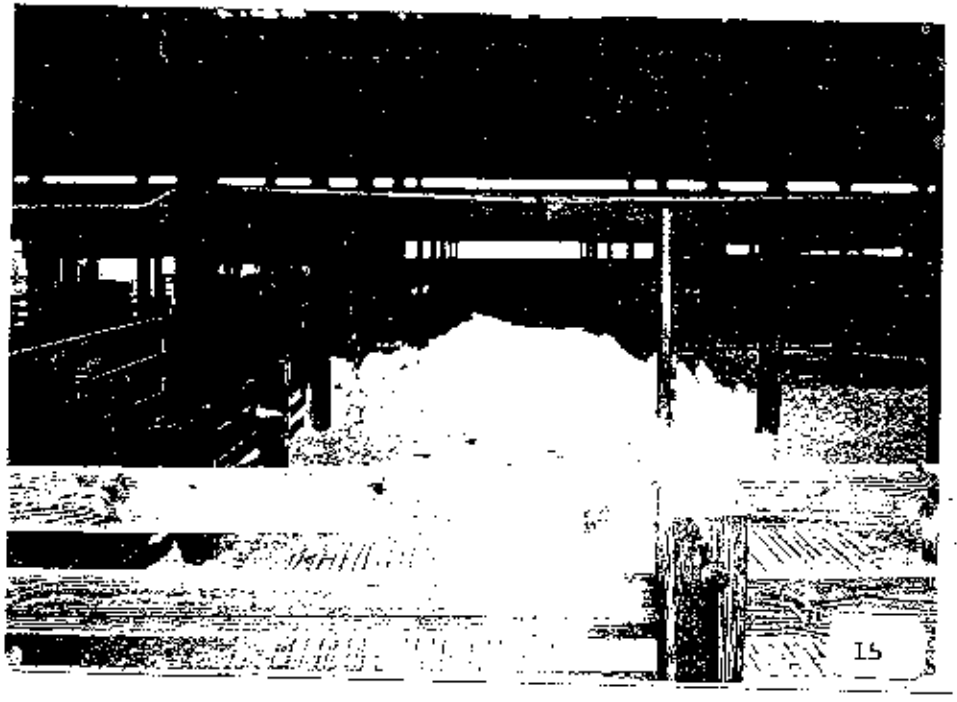

13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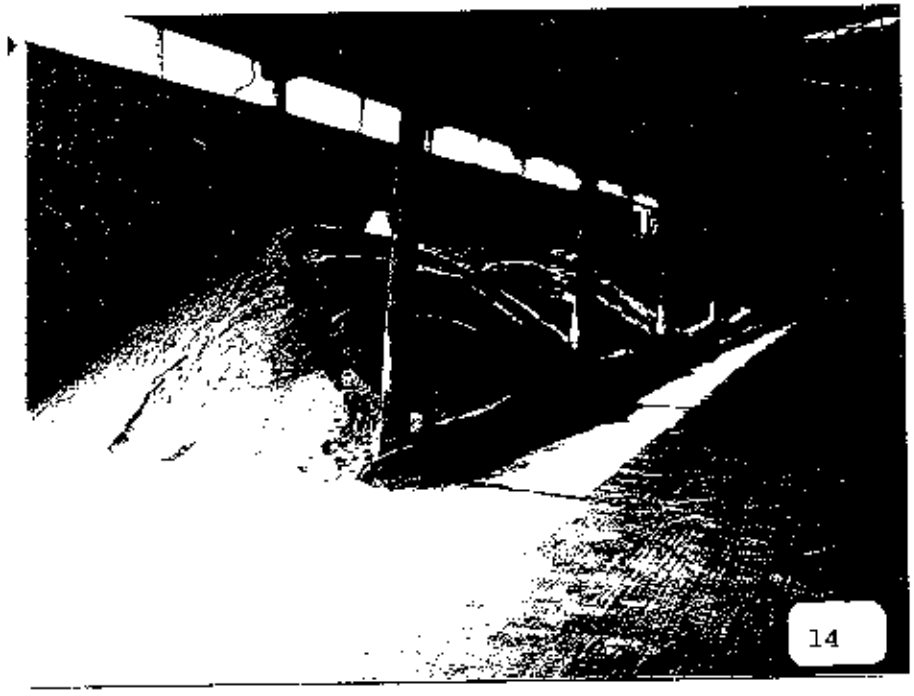
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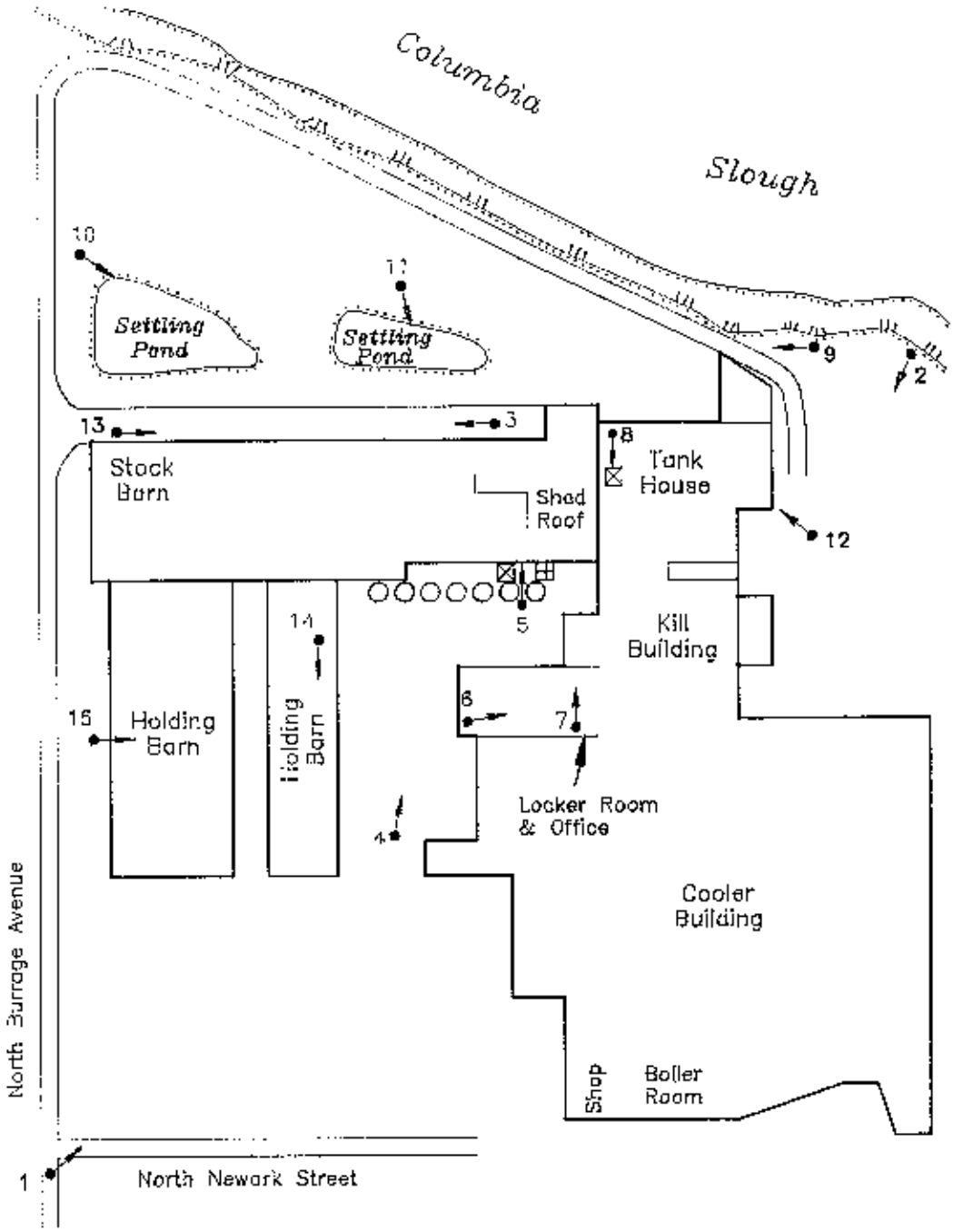


LEGEND

- ⊠ Sump to settling pond then sewer
- ⊞ Storm water sump to Columbia Slough
- ●→ Photo location and direction of picture
- 4 Photo number

ecology & environment, inc.	
Job: T10-8710-010	Waste Site: OR 0195
Drawn by: D. P.	Date: Sept. 14, 1988

Source: Patrick Wicks, P.E.

FIGURE A-1
PHOTO LOCATION MAP
PACIFIC MEAT COMPANY
Portland, OR

APPENDIX B

QUALITY ASSURANCE REVIEW

ecology and environment, inc.
101 YESLER WAY, SEATTLE, WASHINGTON, 98104, TEL. 206/624-9537
International Specialists in the Environment

MEMORANDUM

DATE: August 12, 1988

TO: Bruce Jensen, TATM-Project Manager, E&E, Seattle, WA

FROM: David Byers, TATM-Chemist, E&E, Seattle, WA DRB

THRU: Michael Bray, TATM-Chemist, E&E, Seattle, WA (MB)

SUBJ: Inorganic Data Quality Assurance Review, Pacific Meat Co.

REF: TDD: T10-8805-011
PAN: TOR-0195-AAA

The inorganic data quality assurance review of eleven soil samples collected at the Pacific Meat Co. site in Portland Oregon has been completed. Inorganic analyses were performed by Sound Analytical Service, Inc., Tacoma, Washington

The soil samples were numbered: T8050468 through T8050478.

Data Qualifications:

I Sample Holding Time: Acceptable.

All samples were analyzed within the six month holding time for metals and 28 days for mercury.

II Calibration: Data not available.

III Blanks: Acceptable.

No level of contamination was detected at or above the contract required detection limit for any of the analyzed elements.

IV ICP Interference Check Sample Analysis: Data not available.

V Laboratory Control Sample Analysis: Acceptable.

VI Specific Sample Results

A. Duplicate Sample Analysis:

The results of blind duplicate sample analysis performed on samples T8050472 and T8050473 are presented below.

Blind Duplicate Analysis

Analyte	T8050472 (mg/kg)	T8050473 (mg/kg)	Relative Percent Difference
Aluminum	7123	7863	10
Arsenic	0.1U	0.1U	NC
Lead	1880	2485	27
Mercury	2.99	0.05U	NC
Zinc	3274	4239	26

U - Analyte was not detected at the given instrument detection limit.
NC - The relative percent difference is not calculated when the sample results are below the instrument detection limit.

The calculated relative percent difference result for all analytes was less than the soil matrix guideline of 35%. Attention should be drawn to the blind duplicate results for mercury. These results indicate that gross problems exist with sample homogeneity and/or analytical parameters. In the reviewers opinion the results for mercury must be considered quantitatively questionable and flagged (J) as estimates.

B. Spike Sample Analysis: Acceptable.

All matrix spike and matrix spike duplicate recoveries performed on sample number T8050477 were within the 75-125% recovery range.

VII Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses" (February, 1988).

Based upon the information provided, the data is acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

J - The associated numerical value is an estimated quantity because the reported concentrations were less than the contract required detection limits or quality control criteria were not met.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

ecology and environment, inc.
101 YESLER WAY, SEATTLE, WASHINGTON, 98104, TEL. 206/624-9537
International Specialists in the Environment

MEMORANDUM

DATE: August 12, 1988

TO: Bruce Jensen, TATM-Project Manager, E&E, Seattle, WA

FROM: David Byers, TATM-Chemist, E&E, Seattle, WA DRB

THRU: Michael Bray, TATM-Chemist, E&E, Seattle, WA MB

SUBJ: **PCB Data Quality Assurance Review, Pacific Meat Co.**

REF: TDD: T10-8805-011
PAN: TOR-0195-AAA

The PCB data quality assurance review of eleven soil/sediment samples collected from the Pacific Meat Co. site in Portland, Oregon has been completed. PCB analyses were performed by Sound Analytical Service, Inc., Tacoma, Washington.

The soil/sediment samples were numbered: T8050468 through T8050478.

Data Qualifications:

I Sample Holding Time: Acceptable

All samples were extracted within seven days from the date of collection and analyzed within 40 days from the date of extraction.

II Pesticide Instrument Performance: Acceptable

Decachlorobiphenyl was used as the surrogate instead of dibutyl-chlorendate (DBC). The retention time shift for Decachlorobiphenyl met the performance criteria for DBC, it did not shift by more than 2%.

III Calibration:

A. Initial Calibration: Acceptable

A five point initial calibration curve was performed on aroclors 1260 and 1254 prior to analysis. The percent relative standard deviation of calibration factors did not exceed 10%.

B. Continuing Calibration: Data not available.

IV Method Blank: Acceptable

No contamination was detected in the method blank prepared and analyzed with the samples.

V Surrogate Recoveries: Acceptable

DBC surrogate recovery criteria for soil/sediment samples is 20-150%. This recovery criteria may be applied to decachlorobiphenyl. Sample surrogate recoveries ranged from 80-110%. These recoveries are acceptable.

VI Matrix Spike/Matrix Spike Duplicate: Acceptable

The matrix spike and matrix spike duplicate recoveries for sample number T8050477 were 87% and 89%, respectively. There are no criteria for matrix spikes on which to judge the acceptability of the data, however, it is the opinion of the reviewer that these results are acceptable.

VII Field Duplicates: Acceptable

Blind duplicate analysis was performed on sample numbers T8050472 and T8050473. Aroclor 1260 results for these two samples were 8.5 mg/kg and 11.0 mg/kg, respectively, for a relative percent difference of 26%. There are no criteria on which to evaluate the acceptability of duplicate results, however it is the opinion of this reviewer that these results are acceptable.

VII Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses" section on "Pesticides Procedure" (February, 1988).

Based upon the information provided, the data is acceptable for use.

PRELIMINARY ASSESSMENT
(PA)

PACIFIC MEAT COMPANY
(dba Northwest Cast Metal Products, Inc.)
OR D050185750
2701 N. NEWARK STREET
PORTLAND, OREGON

SEPTEMBER 18, 1987

Prepared for: U.S. Environmental Protection Agency
Region 10
Superfund Program Management Section
Seattle, Washington 98101

Prepared by: Oregon Department of Environmental Quality
Remedial Action Section
Portland, Oregon 97204-1334

INTRODUCTION

Pursuant to Cooperative Agreement V000332-01, Amendment 2 between the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (DEQ), the DEQ conducted a Preliminary Assessment (PA) of the site known as Pacific Meat Company (dba Northwest Cast Metal Products, Inc), OR D050185750. PAs are intended generally to identify potential hazards at a site, identify sites that require emergency action, and to establish priorities for sites requiring in-depth investigations (Site Inspections). The PA is based on readily available information about the site and is not a full investigation or characterization of the site.

The Pacific Meat Company (dba Northwest Cast Metal Products, Inc.) PA was conducted to identify potential public health and/or environmental threats related to the site. The PA is based on data derived from the sources listed in "J" below. Information gathered during the PA is summarized in the attached EPA form 2070-12 (see Attachment I).

INFORMATION OBTAINED DURING THE PA

A. GENERAL SITE DATA

Site Name: Pacific Meat Company (dba Northwest Cast Metal)

Location: 2701 N. Newark Street
Portland, Oregon 97217

Operator: Unknown

Contact: Unknown

Telephone: Unknown

Owner: Pacific Western Bank

Contact: Douglas Leeding
Senior Vice President
Pacific Western Bank
Mortgage Banking Group
P.O. Box 22352
Milwaukie, Oregon 97222

Telephone: (503) 653-3375

B. SITE DESCRIPTION

The Pacific Meat Company site is an abandoned meat rendering facility located in the northern part of Portland, Oregon (see Attachment II). The site was used by Mr. Peter O. Haney, dba Northwest Cast Metal Products, Inc., for about two years to salvage metals. A partial clean-up has been performed under the direction of the property owner. The site consists of

several buildings including the cooler building, the kill building, the tank house, a shed, a stock barn and two holding barns. Also included at the site were two settling ponds used to provide primary treatment to the rendering wastes prior to discharge to the Columbia River Slough (see Attachment III). Aerial photos are included in the DEQ's NW Region hazardous waste file. The waste treatment practices of Northwest Cast Metal Products, Inc. are not known.

C. OWNERSHIP INFORMATION

The site was originally placed into operation in 1946 by Pacific Meat Company. The plant was closed in 1978 and Pacific Western Bank assumed ownership (see Attachment IV). The corporate address is:

Pacific Western Bank
Mortgage Banking Group
P.O. Box 22352
Milwaukie, Oregon 97222

D. WASTE AND CONTAMINANT TYPES, QUANTITIES & CHARACTERISTICS

The site has had a non-Superfund clean-up plan prepared by a consultant in 1985 (see Attachment V). To obtain data for this report an initial site entry was performed by Crowley Environmental Services. Site entry was done using Level B personal protective equipment. The site entry person "...was surprised at how bad the site appeared" (see Attachment VI). The plan attempts to identify and quantify some of the more obvious wastes present. The following wastes are confirmed or suspected of being present at the site:

1. PCBs - transformer oil in drums & spills
2. Cyanides - from metals recovery
3. Organic solvents - drums and spills
4. Lead compounds - from smelting operations
5. Arsenic compounds - from smelting operations
6. Mercury compounds - from precious metals recovery
7. Zinc compounds - from smelting operations
8. Phenols - associated with PCBs
9. 1,2-dichlorobenzene - associated with PCBs
10. Bis-2-ethyl hexyl phthalate - associated with PCB's
11. Furans - from incomplete combustion of PCBs
12. Dioxins - from incomplete combustion of PCBs
13. Pesticides - suspected of being on-site
14. Paints & coatings - in military containers

The clean-up that took place was essentially an emergency response action. The study lacks many of the components ordinarily included in a Superfund Site Inspection (SI), such as:

* groundwater sampling,

* river sediment sampling,

* a health and safety plan,

* a sampling plan for quality control and quality assurance on the samples and analyses,

* areal (horizontal & vertical) determination of the boundaries of the contamination ,

* sediment sampling from the settling ponds,

* statistically valid verification sampling in areas that were "cleaned-up"

* adequate characterization of the wastes

Quantities identified ranged from trace to 2,895 gallon of paints and coating in military containers.

Mr. Haney and his associates had a record of illegal practices involving various salvage operations (see Attachment VII). Most of these enterprises involved the illegal disposal of heavy metal contaminants, oils containing PCBs and other chemicals such as, inorganic acids and cyanide compounds. PCB contaminated oils were often used to fuel smelters. On at least two occasions Mr. Haney was cited for the open burning of oil impregnated insulation off transformer coils to recover the copper windings (see Attachment VIII).

The cyanide wastes were probably either spent plating wastes from which attempts were being made to recover the dissolved metals or the wastes were generated as part of a precious metals recovery process. The acute and chronic toxicity of cyanide and its associated chemical compounds on humans and the environment are well known. The quantities of these types of materials that were used or disposed on-site are not known. Heavy metal contaminants that are generally associated with sites affiliated with Mr. Haney include lead, antimony, mercury, arsenic, cadmium, aluminum and zinc.

For the most part, these metals form compounds that are not readily soluble in neutral pH water. They tend to be persistent in the environment and are not readily degraded. They are bioaccumulative and many are either known or suspected human carcinogens. There are no quantity estimates for any of these materials.

PCB contaminated oils are common on sites associated with Mr. Haney et al. As with heavy metals, PCBs are persistent and non-biodegradable. They exhibit both acute and chronic toxic effects primarily through the dermal, inhalation, and ingestion pathways of exposure. PCBs are suspect human carcinogens with the liver as the target organ. Furans and dioxins can be found in some PCBs and can be produced during the incomplete combustion of PCBs. These chemical substances are some of the most toxic and persistent compounds to have ever been synthesized. There is no estimate of the quantity of PCBs, furans or dioxins that may have been stored, generated or disposed on the site.

E. SITE HISTORY AND POTENTIAL PROBLEMS

The site was a full process red meat rendering facility from 1946 to 1972. In 1972, Pacific Meat Company discontinued their meat meal and tallow rendering operations. Historically, they were one of the most significant polluters of the Slough. Their waste was primarily biological in nature. On September 15, 1978, the facility was closed as a rendering facility. Sometime in 1979, Mr. Peter O. Haney, now deceased, leased the property from the deed holder, Pacific Western bank. As previously mentioned, Mr. Haney and his associates had a record of illegal practices involving various salvage operations. Company names for these operations include, but are not limited to:

1. Broad Spectrum Electronics
2. M and H Smelting and Refining
3. Northwest Cast/Universal Silver
4. Northwest Cast Metal Products
5. Northwest Cast Metal Products, Inc.
6. Auric Enterprises

The site at the Pacific Meat Company was known as Northwest Cast Metal Products, Inc. The site was utilized for about two years with operations ending sometime in 1981. The following potential problems may be present at this site:

1. Groundwater - The site clean-up plan indicates numerous spills of various toxic chemicals. No groundwater evaluation or sampling has been performed to date.

2. Soils - Documented contamination with PCBs, cyanides, and unidentified spills.

3. Sediments/Sludges - The disposition of sediments/sludges in the two on-site settling ponds is not known. Sediments in the Slough near the site outfalls have not been analyzed for contamination.

4. PCBs - High potential for the use of PCB contaminated oils as fuel for the smelting operations. The low temperature combustion of PCBs has a high probability of having produced dioxins and furans. PCB residuals greater than 10 ppm were left on-site after the response action.

5. Building contamination - Floors and structures have been contaminated with a variety of unidentified chemicals. Wipe tests have not been performed.

6. Sanitary sewers - High probability that wastes were discharged into the sewer system. This has not been addressed to date.

7. Storm drains - High probability that illegal discharges to the storm drains which go directly into the Columbia River Slough. The distance to the Slough appears to be less than 100 feet.

9. Air pollution equipment - An extensive air pollution system had been installed by Pacific Meat Company. Utilization of this system by Mr. Haney's operations may have contaminated the entire system.

F. PHYSICAL AND DEMOGRAPHIC INFORMATION

The site is located in the northern portion of Portland, Oregon, immediately adjacent (less than 100 feet) to the Columbia River Slough. Site access is possible from the roadway and the Slough. The Slough is to the north of the site. On the east, west and south sides are other industrial facilities. Within a one-mile radius there are several city parks, a golf course, a race track, residential areas, schools, churches, retail stores, other commercial establishments, railroad lines and major arterial roadways.

The site is within a heavily urbanized part of Portland. The city supplies drinking water to the area from a central municipal water supply. Based on a brief review of the Water Resources well logs, several drinking water wells were identified within a three mile radius of the site. There are also wells for irrigation (ie. golf course irrigation) and industrial uses, such as cooling and process water within the same three mile radius of the site.

G. CONTAMINANT MOBILIZATION, PATHWAYS AND RISK

In Section D above, the types, quantities and basic characteristics of the potential contaminants were mentioned. The following is a brief discussion of some of the potential impacts of these contaminants on the public and the environment.

All of the heavy metal compounds are associated with metal salvage and recovery operations. All of these materials exhibit somewhat similar toxicologic effects and can be characterized as being persistent, bioaccumulative, and generally insoluble in neutral pH water. The toxic effects to humans can be local or systemic with target organs being eyes, skin, liver, blood, kidneys, and the cardiovascular system. Routes of entry are typically inhalation, ingestion, skin adsorption, and skin or eye contact. Antimony, arsenic, cadmium and lead are all known or suspected human carcinogens.

PCBs in concentrations of up to 7,400 ppm were identified on-site. PCBs exhibit both acute and chronic toxic effects. They are a confirmed animal carcinogen and are a suspect human carcinogen with the liver as the target organ. Additional highly toxic substances such as, chlorinated dibenzodioxins and chlorodibenzofurans, may be present with the PCBs. These chemicals may also be produced by the low temperature combustion of PCBs.

H. PRIORITY ASSESSMENT

Based on the known and suspected contaminants at this site, a high recommendation is made that a site inspection (SI) be performed at this site as soon as possible.

I. FOLLOW-UP RECOMMENDATIONS

This site should be posted immediately as a hazardous waste site and as a threat to human health.

It is recommended that this site be given a high priority when site inspections are assigned. It is also recommended that no DEQ personnel be allowed to enter the site without full Level C or better personal protective equipment being worn. DEQ personnel must not enter this site alone. Site entry should be prohibited without prior notification of the Remedial Action Section and without the express consent of the person's immediate supervisor. Any DEQ personal entering the site must have medical baseline data available to make it possible to determine whether any exposure has occurred. A tracking system should be implemented to document who enters the site, when, for how long, and what personal protective equipment was worn. All personal protective equipment worn on the site must be considered as contaminated and must be either properly disposed or decontaminated.

The response action allegedly taken by Riedel Environmental Services, at the direction of the owner, must be considered an emergency mitigative measure and is not an acceptable clean-up of this site. Note that no regulatory agency has ever received a copy of the clean-up report from the bank as of the date of this PA. The current use of this property should be immediately determined and the appropriate notification given to the present tenants.

J. REFERENCES

ATTACHMENT I - EPA Form 2070-12 "Potential Hazardous Waste Site Preliminary Assessment"

ATTACHMENT II - Location map, excerpt from USGS 7.5 minute series topographic map, Portland quadrangle, photorevised 1970.

ATTACHMENT III - Memo from Neil Hacking Multnomah County Sanitarian, dated November 10, 1970, to John Donnelly, M.D., County Health Officer.

ATTACHMENT IV - Multnomah County property tax information dated October 10, 1985 and DEQ Air Quality permit renewal notice dated November 7, 1978.

ATTACHMENT V - Transmittal letter and report from Douglas Leeding, Pacific Western Bank, dated September 24, 1985, to Janet Gillaspie, DEQ NW Region.

ATTACHMENT VI - Telephone use report from Sherry Evans-Carmichael, EPA-000, dated January 23, 1986 regarding call to Mike Cook, Crowley Environmental Services.

ATTACHMENT VII - Trip report from Sherry Evans-Carmichael, EPA-000, dated January 22, 1986, to Chip Humphrey, EPA-000.

ATTACHMENT VIII - DEQ Memo form Chuck Clinton DEQ, dated December 12, 1984, to Van Kollias,DEQ and EPA Notice of Violation dated January 29, 1982.

OTHER REFERENCES:

1. DEQ CERCLIS files.

2. DEQ NW Region files.

3. EPA Oregon Operations Office files.

4. Handbook of Toxic and Hazardous Chemicals and Carcinogens, Second Edition, Marshall Sittig, Noyes Publications, 1985.

5. Neurotoxicity of Industrial and Commercial Chemicals, Volume II, John L. O'Donoghue, CRC Press, 1985.

ATTACHMENT

I

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: OR | 02 SITE NUMBER: D050185750

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Pacific Meat Company	2701 N. Newark Street

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Portland	OR	97217	Multnomah	051	03

09 COORDINATES LATITUDE	LONGITUDE	Township T. 1N. Range R. 1E. Section 60.
45 35 33.0	122 41 43.0	

10 DIRECTIONS TO SITE (Starting from nearest public road)
North on 99W. to N. Argyle St. West on N. Argyle to N. Argyle Way. Follow N. Argyle Way to N. Columbia Blvd. West on N. Columbia Blvd. to N. Surrage. North on N. Burrage to intersection with North Newark. Site is on E. corner.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Pacific Western Bank	P.O. Box 22352

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
Portland	OR	97222	(503) 653-3375	Douglas Leeding Senior V.P.

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
unknown	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
			( )	

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☒ F. OTHER: Mortgage Company (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 5/85 (MONTH DAY YEAR) ☐ NO
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION
☐ A. ACTIVE ☐ B. INACTIVE ☒ C. UNKNOWN	BEGINNING YEAR _____ ENDING YEAR _____ ☒ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Heavy metals (lead, zinc, arsenic, copper, mercury); PCBs and related compounds (phenols; 1,2-dichlorobenzene; Bis-2-ethylhexyl phthalate); & cyanide from metals recovery and secondary smelting. Smelters fueled with transformer oils, possible dioxins and furans from incomplete combustion of PCBs.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Possible airborne, dermal, surface & groundwater hazards from exposure to above contaminants. Close proximity to Columbia Slough, residential neighborhood, & known domestic well sources create potential environmental/ health hazards. Little concern from meat packing operations.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☒ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspection on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Mary Wahl	DEQ/Remedial Action	(503) 229-5072

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Bill Renfroe	DEQ	Remedial Action	(503) 229-6900	09 18 87 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

*- Also known as Northwest Cast Metal Products

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
OR | ID050185750

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)
- [X] A. SOLID
- [X] B. POWDER, FINES
- [ ] C. SLUDGE
- [ ] D. OTHER (Specify) Ash
- [ ] E. SLURRY
- [X] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)
TONS: unknown
CUBIC YARDS: unknown
NO. OF DRUMS: unknown

03 WASTE CHARACTERISTICS (Check all that apply)
- [X] A. TOXIC
- [X] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	unknown		PCBs disposed/burned on-site
SOL	SOLVENTS	unknown		Used to clean metals & transformers
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown		Associated with PCBs.
IOC	INORGANIC CHEMICALS	unknown		Possible reclamation byproducts.
ACD	ACIDS	unknown		Mineral acids
BAS	BASES			
MES	HEAVY METALS	unknown		Secondary smelter/ recovery operations.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	PCB	1336-35-3	PL	unknown	
SOL	Organic solvents	999	PL	unknown	
MES	Lead compounds	999	PL	unknown	
MES	Arsenic compounds	999	PL	unknown	
MES	Mercury compounds	999	PL	unknown	
MES	Zinc compounds	999	PL	unknown	
OCC	Phenols	108-95-2	PL	unknown	
OCC	1,2-dichlorobenzene	25321-22-6	PL	unknown	
OCC	Bis-2-ethyl hexyl phthalate	999	PL	unknown	
IOC	Cyanide compounds	999	PL	unknown	
OCC	Furans	999	PL	unknown	
OCC	Dioxins	999	PL	unknown	
ACD	Mineral Acids	999	PL	unknown	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA-OCO CERCLIS files; EPA site inspection (1/7/86); USGS 7.5 minute topo-Portland quad; Water Resources well logs. DEQ CERCLIS files, DEQ NW Region files, DEQ Air Quality Files, and DEQ Water Quality files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: OR | 02 SITE NUMBER: D050185750

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Site used as secondary smelter for lead & other heavy metals. Also, possible mercury recovery from dental wastes. PCB containing transformer oils used to fuel smelter. Underground storage tank on-site. On-site waste treatment facilities included unlined ponds.

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See A. above. Storm drains on-site. Within 500 feet of the Columbia Slough.

01 ☒ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See A. above. Secondary smelting of lead. No air pollution control equipment. Burning of PCB contaminated oils to fuel smelter may have produced furans and/or dioxins.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Underground storage tank with gas pump. Conditions & contents of tank not known.

01 ☒ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Current operations at the site not known.

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
See A. above. Operator in partnership with Peter O. Haney who had a history of poor housekeeping & illegal past practices. Possible heavy metal & PCB contamination.

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Domestic water wells known to exist within a 3-mile radius of the site.

01 ☒ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Current operations at the site not known.

01 ☒ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Within 2 blocks of residential area.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: OR | 02 SITE NUMBER: D050185750

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No known or suspected. Heavily industrialized area.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

No known or suspected.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Surface water runoff to Columbia Slough used for sport fishing.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No known or suspected.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No known or suspected.

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

On-site treatment system & affiliation with Peter O. Haney who is known for illegal activities. Treatment ponds not lined.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

See O. above.

06 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Mercury recovery techniques not known. There may be a possibility of cyanide compounds on-site.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

This is one of several sites owned/operated/affiliated with Peter O. Haney. A site inspection will be recommended for this site. The address of Northwest Cast Metal Products (9300 N. Burrage) and this site are the same location.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See previous.

ATTACHMENT

II


SMITH LAKE
HARBOR
North Portland
Force Lake
Vanport City
(Site)
Radio Towers
(KGW)
Falomá
COLUMBIA
Peninsula Junction
East St Johns
BM 42
SLOUGH
Kenton
Columbia Park
UNIVERSITY OF PORTLAND
Mocks Bottom
St Johns Junction
Port of Portland
Swan Island
PORTLAND MEADOWS
Arbor Lodge Park
Madrona Park
Reserve Training Center
T2N
T1N

ATTACHMENT

III

Multnomah County Oregon

INTER-OFFICE MEMORANDUM

TO	FROM
John H. Donnelly, M.D., M.P.H. Director of Medical Services Multnomah County Health Officer	Neal Hacking, R.S. Sanitarian

DATE	SUBJECT
Nov. 10, 1970	COLUMBIA SLOUGH WATER SAMPLING

WQC 6-2-42

P.D.-5

On October 28, 1970 water samples were collected at various locations along the Columbia Slough in response to a request by Commissioner Mal Gordon, who wishes to relay the results of testing to the City-County Health Committee and the Board of County Commissioners. Michael Adler of our staff, Bob Gilbert of the Department of Environmental Quality, and I collected twenty two samples from six different spots for bacteriological and chemical analysis. In addition, temperature and PH were recorded at sampling points.

Testing was completed November 9, 1970 and results are available for MPN (Most Probable Number of Coliform Bacteria), DO (Dissolved Oxygen), BOD (Biochemical Oxygen Demand), and basic metals, including iron, copper, lead, zinc, and chromium. DO and BOD are expressed in mg. per liter, MPN is expressed per 100 ml., and basic metals are expressed in parts per million. Results are tabulated in the table on the following page.

Sincerely,

Neal Hacking

Neal Hacking, R.S.
Sanitarian

NH:rco

Multnomah County Oregon

INTER-OFFICE MEMORANDUM

TO: John H. Donnelly, M.D., M.P.H. Director of Medical Services Multnomah County Health Officer	FROM: Neal Hacking, R.S. Sanitarian
DATE: Nov. 10, 1970	SUBJECT: COLUMBIA SLOUGH WATER SAMPLING

WQC 6-1-42

P.O.-S

On October 28, 1970 water samples were collected at various locations along the Columbia Slough in response to a request by Commissioner Mel Gordon, who wishes to relay the results of testing to the City-County Health Committee and the Board of County Commissioners. Michael Adler of our staff, Bob Gilbert of the Department of Environmental Quality, and I collected twenty two samples from six different spots for bacteriological and chemical analysis. In addition, temperature and PH were recorded at sampling points.

Testing was completed November 9, 1970 and results are available for MPN (Most Probable Number of Coliform Bacteria), DO (Dissolved Oxygen), BOD (Biochemical Oxygen Demand), and basic metals, including iron, copper, lead, zinc, and chromium. DO and BOD are expressed in mg. per liter, MPN is expressed per 100 ml., and basic metals are expressed in parts per million. Results are tabulated in the table on the following page.

Sincerely,

Neal Hacking

Neal Hacking, R.S.
Sanitarian

NH:rco

ATTACHMENT

IV

*** LOZ ***

ACCT NUMBER R-65524-6240 10/10/85

NAME PACIFIC WESTERN BANK
YR-AQ- 83 BK/PG-1679/0849

MAIL
P O BOX 22085
MILWAUKIE, OREGON 97222

PROP 2701 N NEWARK ST
PORTLAND, OREGON 97217
MAP- 2127 CENSUS TRACT-000.00
LEVY/CODE-001

LAND CHARACTERISTICS
RATIO CODE- 371 1 -APPR DISTRICT
AREA- 5.50 A ZONING-M1

STATUS
DIV DIVISION 052484
HANEY,P O & EILEEN 14540087
NON OOPR ACCT
1985/86-REAP AS OF 1-1-85
VCHR # ACT-841668 VCHR # DIV-841668 / / -- 85/86 04/19/85 M
- IMPS CHARACTERISTICS
CLASS-
USE-INDUST UNITS-
CONS- ARCH-
STORIES- 2.0 LIVING AREA- 61,860
NEIGHBORHOOD 180 YR BUILT-1947
% IMP GOOD-

LEGAL DESCRIPTION
ADD-PENINSULAR ADD 4 LOT BLOCK
TL 2 OF BLKS 61&62&B&C

TRUE CASH VALUE BEFORE EXEMPTION

YEAR	CHG-DATE	CD	LAND	IMPROVEMENT	TOTAL
84/85	04/26/84	M	$302,470	$247,530	$550,000
85/86	04/19/85	M	$259,000	$441,000	$700,000

ASSESSED VALUE BEFORE EXEMPTION

YEAR	SR%	LAND	IMPROVEMENT	TOTAL
84/85	96.0	$290,370	$237,620	$527,990
85/86	100.0	$259,000	$441,000	$700,000

EXEMPTIONS

YEAR	TYPE	LAND	IMPROVEMENT	TOTAL
NO EXM VALUES				

EXEMPTIONS ASSESSED VALUE

YEAR	SR%	LAND	IMPROVEMENT	TOTAL
NO ASSESSED EXM VALUES				

TAXABLE VALUE

YEAR	SR%	LAND	IMPROVEMENT	TOTAL
84/85	96.0	$290,370	$237,620	$527,990
85/86	100.0	$259,000	$441,000	$700,000

ACCT. NUMBER R-65524-6240 10/10/85 ********** T A X I N F O R M A T I O N **********

RECEIVABLE

YEAR	BALANCE	L/C	RATE	TAX AMOUNT	TAXABLE VALUE
84-85	$0.00	001	$24.56	$12,967.44	$527,990
85-86	$17,976.00	001	$25.68	$17,976.00	$700,000

TRANSACTIONS

YEAR	CODE	DATE	RECEIPT	BATCH	TRAN AMOUNT	I/D	I/D AMOUNT
84-85	T01	9/28/84	TAXEXT	AW64	$12,967.44	D	
84-85	T36	8/15/85	701209	0106	$13,745.48	I	$778.04
85-86	T01	10/ 3/85	TAXEXT	AW64	$17,976.00	D	

ACCT NUMBER R-65524-7170 10/10/85

NAME GALLUS,WALTER
YR-AQ-69C 57 BK/PG-

MAIL
P O BOX 17066
PORTLAND, OREGON 97217

PROP F/N BURRAGE AVE
PORTLAND, OREGON
MAP- 2127 CENSUS TRACT-
LEVY/CODE-001

LAND CHARACTERISTICS
RATIO CODE- 371 1 -APPR DISTRICT
AREA- 91,875 SF ZONING-M1

STATUS
DIV STAT CHNGCO60785
NON OOPR ACCT
1985/86-REAP AS OF 1-1-85
VCHR # ACT-842099 VCHR # DIV-842099 / / --
- IMPS CHARACTERISTICS
CLASS-
USE-INDUST UNITS-
CONS-CL C ARCH-
STORIES- 1 LIVING AREA- 32,794
NEIGHBORHOOD 180 YR BUILT-1932
% IMP GOOD-

LEGAL DESCRIPTION
ADD-PENINSULAR ADD 4 LOT BLOCK
TL 2 OF 63&64

TRUE CASH VALUE BEFORE EXEMPTION

YEAR	CHG-DATE	CD	LAND	IMPROVEMENT	TOTAL
84/85	01/28/84	T	$220,800	$1,214,400	$1,435,200
85/86	06/07/85	D	$127,000	$1,220,000	$1,347,000

ASSESSED VALUE BEFORE EXEMPTION

YEAR	SR%	LAND	IMPROVEMENT	TOTAL
84/85	96.0	$211,960	$1,165,820	$1,377,780
85/86	100.0	$127,000	$1,220,000	$1,347,000

EXEMPTIONS

YEAR	TYPE	LAND	IMPROVEMENT	TOTAL
NO EXM VALUES				

EXEMPTIONS ASSESSED VALUE

YEAR	SR%	LAND	IMPROVEMENT	TOTAL
NO ASSESSED EXM VALUES				

TAXABLE VALUE

YEAR	SR%	LAND	IMPROVEMENT	TOTAL
84/85	96.0	$211,960	$1,165,820	$1,377,780
85/86	100.0	$127,000	$1,220,000	$1,347,000

Pacific Meat Company
Portland, Oregon

26-2453

RENDERING PLANT CLOSED
9-15-78

Remit and Make Checks Payable to:
Department of Environmental Quality
Attn: Fiscal Office
1234 S.W. Morrison Street
Portland, Oregon 97205

RECEIVED
DEC 29 1978
Dept. of Environmental Quality
NORTHWEST REGION

INVOICE

FOR DEQ USE ON
Date Received: PMD DEC 26 1978
Amount Received:
Bank No.:

TO: PACIFIC MEAT COMPANY
POST OFFICE BOX 17036
PORTLAND OR 97217

Number: 7811078
Date: 11/07/78

PERMIT NUMBER	ITEM OR REFERENCE	AMOUNT DUE	DATE DUE
26-2453	AIR CONTAMINANT DISCHARGE PERMIT ANNUAL FEE FOR THE TIME PERIOD 12/30/78 TO 12/30/79		
	ITEMIZED FEE AS PER TABLE A (12/06/76)		
	~~RENDERING PLANT 10000 LB AGRE TPY..... 6A~~	~~$ 325.00~~	
	BOILER, IN AQMA, RG, HF-5 TO 250MM BTU/HOUR....58B	$ 100.00	
	~~TOTAL DUE~~	~~$ 425.00~~	01/02/
		100 00	

RENDERING PLANT
CLOSED 9-15-78

NOTE: Please return pink copy of this invoice with your remittance to ensure proper credit.

ATTACHMENT

V

PACIFIC WESTERN BANK

MORTGAGE BANKING GROUP
P.O. Box 22352
Milwaukie, OR 97222
503/653-3375

Dept. of Environmental Quality
RECEIVED
SEP 30 1985
NORTHWEST REGION

September 24, 1985

Ms. Janet Gilaspie
Northwest Regional Office of the
Department of Environmental Quality
P.O. Box 1760
Portland, Oregon 97207

Re: 2701 Newark Street, Portland, Oregon

Dear Ms. Gilaspie:

In April 1985 I contacted your office regarding the procedures and policies regarding the identification and potential clean-up of hazardous waste on the above-referenced property. Since that time we have worked with Crowley Environmental Services and Patrick H. Wicks, P.E. Consultants in hazardous waste management in Bellvue Washington to identify what, if any, hazards there may be and how that waste could be disposed.

Enclosed is a report prepared by Patrick H. Wicks, P.E. describing his investigation of the site, identification of certain materials and an action plan for the clean-up of those materials whose level of toxicity exceed an amount described by the Environmental Protection Agency.

We are anxious to clean up the entire site, including non-toxic waste, as soon as possible therefore we request your quick approval of the clean up plan. Should you have any questions please do not hesitate to call.

Cordially,

PACIFIC WESTERN BANK

Douglas H. Leeding
Senior Vice President

DHL/da

cc: Patrick Wicks
Kevin Sheehy

EVALUATION OF POTENTIAL HAZARDOUS MATERIALS CONTAMINATION AND CLEANUP PLAN AT PACIFIC MEAT COMPANY PORTLAND, OREGON

September 1985

Prepared for:
Pacific Western Bank
P. O. Box 22352
Milwaukie, Oregon 97222

Prepared by:
Patrick H. Wicks, P. E.
2535 152nd. Avenue NE., Suite B-2
Redmond, Washington 98052

TABLE OF CONTENTS

1 HISTORY AND FACILITY DESCRIPTION

The subject Pacific Meat Company site is located at the intersection of N. Barrage Avenue and N. Newark Street in Portland, Oregon as shown in Figure 1. Figure 2 shows the location of buildings, effluent settling ponds, other features of the facility and Columbia Slough.

Pacific Meat Company operated its plant at this location for 57 years, ending in 1978 or 1979 (1). The site was reportedly vacant land prior to that time. The plant burned once (date unknown) and was rebuilt.

Various salvage operations were conducted at this site during the approximate period of 1979 through 1981 by Mr. Pete Haney and another person (1),(2). These operations consisted generally of salvaging gold from circuit boards, lead from diving weights, silver from photographic film, aluminum from aircraft parts, and other materials from electrical transformers and capacitors, electrical motors and other machinery.

Gold was recovered from circuit boards by melting using propane as fuel. No chemicals were used in any of these or other salvage operations. Military surplus paints were acquired by Mr. Haney in one lot as from the Department of Defense, Ft. Lewis, Washington in 1980 or 1981. Some paint container labels confirm the source as being the Department of Defense, although most or all of the labels appear to indicate the origin being Naval operations.

Transformer oils were obtained from the Bonneville Power Administration. This oil was used as fuel for melting scrap aluminum. Transformer salvaging was also conducted by a Mr. Bruce Gregory at this location (2). The source of electrical transformers and capacitors handled at the site is unknown.

The Oregon Department of Environmental Quality (DEQ) was contacted in early 1985 by Mr. Doug Leeding (3) of Pacific Western Bank regarding possible contamination at this site.

2 DESCRIPTION OF SITE EVALUATION

2.1 Initial Reconnaissance and Sampling Plan

An initial reconnaissance of the site was conducted by P. Wicks, Mr. Verne Sutton of Pacific Western Bank and with Mr. Louis Ludu on June 18, 1985. During this tour, potential problem areas were noted and other information gathered relative to previous operations at the site, as discussed above.

Following the June 18 site visit, work was initiated on identifying the types of materials present and whether they constituted hazardous wastes. Determinations were made also of those materials that could not be identified. A sampling plan was then developed for unidentified materials and for site areas where spillage had occurred.

2.2 Inventory

On June 25, 1985, an inventory of all potentially hazardous materials and wastes at the site was conducted by Mr. Terry Petko. Several subsequent site visits were also made during which additional information of a similar nature was obtained. Information gathered during these site visits is summarized in Table 1 for non-paint materials and in Table 2 for paints.

To assist in identifying the composition and properties of the military surplus paints, Material Safety Data Sheets (MSDS) were requested from Puget Sound Naval Shipyard, the apparent origin of the paint wastes. MSDS or other data were received from the shipyard for most of the paint materials.

2.3 Sampling and Analysis

On May 22, 1985 Crowley Environmental Services collected 4 samples, 3 of asphalt in oil spill areas and 1 background soil. These samples were analyzed for total PCB's. A copy of the laboratory report for these samples is enclosed in the Appendix. The approximate location of these samples (C-1, C-2, C-3, and C-4) and the analytic results are shown in Table 1 and Figure 3.

During initial reconnaissance in June 1985, all areas of the site had been toured to determine those areas which had obvious contamination or spills. Only those areas which had such obvious contamination or spills were subjected to further sampling and analysis, as described below.

2.3.1 Phase 1

Phase 1 samples were collected July 26 and 29, 1985 and analyzed as follows:

1. At the transformer reclaim area (outside and east of the Tank House and Kill Building), three asphalt (S-1, S-2, S-3) and one background soil (S-4) samples were collected and analyzed for total PCB's. Also, eight samples (one per drum, A through H) were collected from 30- or 55-gallon drums of oil, oil and water or water for determination of total PCB's. Two of these eight samples were not analyzed since they were water without any oil or oil sheen. A third of these eight samples was misplaced by the laboratory and not analyzed.

2. West of the Sweco separators, one asphalt sample (S-5) and five samples (one per drum, I through M) from 55-gallon drums samples were collected. The asphalt sample and one of the drum samples were analyzed for total PCB's. The other drum samples were not analyzed since PCB contamination was not suspected after sampling was conducted.

3. Along the roadway north of the stock barn, three asphalt samples (S-6, S-7, S-8) and eight samples (one per drum, N through U) were collected from 30- or 55-gallon drums of oil, oil and water or water for determination of total PCB's.

4. Samples from inside buildings, as follows:

    a. From a suspected cyanide spill.

    b. One epoxy paint container in the west holding barn for flash point.

    c. Three drums of oil under the shed roof area for total PCB.

Sampling of several other drums was attempted, but the containers could not be opened with available tools.

During inventory and sampling work performed in the west holding barn, it was observed that approximately 15% to 20% of the paint containers stored there were open, such that the paints had dried.

Sampling and analytic data are summarized in Table 1. Also, Figure 3 shows asphalt and soil sample locations and analytic results.

2.3.2 Phase 2

Phase 2 sampling (September 17 and 18, 1985) and analysis consists of

the following, also see Table 1:

1. Paints for which no reliable data (MSDS or similar data) were available were sampled and tested for flash point.

2. Oil, water/oil and water samples from drums inside the buildings, the sump beneath the building and the east settling pond were collected for total PCB analysis.

3. Samples of drums labeled as DMSO were collected for DMSO/volatile organics analysis.

4. Vials labeled as manganous sulfate and standard chloride solution were analyzed for labeled contents.

These samples are denoted as "***SAMPLE" in Table 1 and "X" in Table 2, and were taken at this time to allow review of Phase 1 sample results, and review of paints MSDS data. Analytic data for Phase 2 samples are expected about October 10.

3 SUMMARY OF EVALUATION RESULTS

3.1 Site Areas Which Appear Uncontaminated

An area east of the kill building and tank house showed evidence of recent filling. This was confirmed (2) as clean fill placed by Pacific Meat Company to level the ground surface in this area.

Recent excavations had been conducted in two locations along the Columbia Slough bank, but these were associated with maintenance of sewer lines for adjacent facilities (2).

An area along the Columbia Slough bank reportedly had been used for storage of some of the salvage materials. No visual contamination was apparent at this location. Accordingly, no samples from this area were collected.

A number of nonhazardous materials are present at the site. These are not addressed herein, since they do not present a hazard.

Within the various buildings at the site, no significant spillage was noted except a small amount in the basement under the locker rooms and office area. This spillage was suspected possibly to be cyanide. It was sampled and tested for cyanide. No cyanide was detected in this

sample above the lower limit of detection of 0.1 ppm total cyanide. Solid materials spilled in this area are soda ash or borax (2). Some nonhazardous materials within the buildings which were initially suspected to possibly be hazardous are also listed in Table 1.

Three underground petroleum fuel tanks are present at the site. Information provided (1) concerning these tanks is summarized in Table 3.

TABLE 3

	GASOLINE	GASOLINE	FUEL OIL*
DATE TANK TAKEN OUT OF OPERATION	ca.1980	ca.1980	ca.1980
AGE OF TANK WHEN TAKEN OUT OF OPERATION	unknown	unknown	unknown
TANK SIZE, gallons	500	1000	3000
TYPE (assumed)	steel	steel	steel
LOCATION	@ gas pumps, west of shop	@ gas pumps, west of shop	under boiler room
MATERIALS LEFT IN TANK WHEN TAKEN OUT OF OPERATION	emptied	emptied	emptied

* = Bunker C used initially, PS 300 black oil used later.

In accordance with Federal Resource Conservation and Recovery Act (RCRA) 1984 Amendments, this information (to the extent known) is to be reported to the designated State agency (probably will be DEQ) no later than May 1986.

3.2 Description of Hazardous Wastes and Contaminated Areas

Potentially hazardous materials present on the site and potentially contaminated areas are summarized in Table 1 for each area of the site. Various information is presented in Table 1, including the number of containers, container sizes, preliminary material identification, container condition, volume present, sample numbers, analysis parameters, analysis results, determination of whether the materials are

a hazardous (RCRA) waste or Federal Toxic Substances Control Act (TSCA) waste and the planned disposition or disposal of these materials. In addition, Table 1 includes a column indicating a mark placed on containers to designate that they are not to be removed during nonhazardous waste cleanup of the site.

3.2.1 Inside Buildings

Approximately 2,895 gallons of military surplus paints and related materials are stored in the west holding barn, as listed in Table 2. These materials are in 1-gallon and 5-gallon containers. During the July 1985 sampling, one sample of epoxy paint was collected for flash point testing. This sample had a 103 degrees F. flash point as reported in Table 1. The composition and flash point data for materials listed in Table 2 were obtained from material safety data sheets and other data provided by the Puget Sound Naval Shipyard. Those materials for which such data could not be provided by the shipyard were sampled on September 17, 1985 for flash point determination, as indicated in Table 2. It will be noted that most of the materials, 79% of the total, in Table 2 are classified as probable hazardous waste (YES and YES?) based on their flash point. Some 15% to 20% of these paints have dried such that these would not be classified as hazardous waste.

Three drums of oil under the shed roof area contained elevated levels of total PCB, 360 ppm to 530 ppm. These are classified as TSCA wastes since the PCB level exceeds 50 ppm.

3.2.2 Outside buildings

At the transformer reclaim area, samples of oil and water collected from drums present in this location indicated total PCB levels of 3 ppm to as high as 410 ppm, see Table 1. It should be noted that analytic results for oil and oil/water samples represent the total PCB content in the oil fraction of the samples. As indicated on Figure 3, samples of soil and asphalt collected from transformer reclaim area indicate total PCB levels of 5 ppm to 11 ppm, for the July 1985 samples. Results of the May 1985 samples indicated 7 and 30 ppm total PCB's. Samples of background soil east of this area were also analyzed for PCB's, resulting in levels of 1 ppm and 2 ppm (sample numbers C-1 and S-4, respectively).

West of the Sweco separators loading dock, spillage was also noted from several of five 55-gallon drums. A sample from one of these drums was analyzed for PCB's, and less than 1 ppm was found. Asphalt was also sampled in this spillage area and found to contain 2 ppm total PCB's. Field and laboratory evaluation of the material in these 5 drums indicates that it is not oil but rather a dark colored water-miscible material with a sweet odor. Obviously this material is not PCB contaminated oil.

In the roadway north of the stock barn, there are two oil spillage areas, as indicated on Figure 3. Analytic results for samples from drums of oil, oil and water, and water in this area indicate six of these drums contain oil or water or both at levels of less than 1 ppm up to 19 ppm total PCB's. Laboratory analysis for the other two drums in this area indicate very high levels of PCB, 62,000 and 43,000 ppm total PCB's. Samples of asphalt collected in these two areas, as shown on Figure 3, indicate the presence of 37 ppm to as high as 7400 ppm total PCB's.

Federal regulations require reporting of PCB spills in excess of 10 lb of total PCB's. It is uncertain whether this requirement would be applicable to this situation since the spillage likely occured over an extended period of time and the quantity spilled cannot be accurately determined. Calculations of the amount spilled indicate a range of about 50 lb to less than 10 lb, depending on the assumptions used.

Surface storm water drains from several outside areas at the facility are routed to a concrete sump under the buildings. Water from this sump is pumped to the east settling pond. Samples (in Phase 2) from this sump and the east settling pond were collected to determine if PCB's are at a level of concern.

4 CLEANUP PLAN

A number of alternate cleanup measures were considered in developing this plan, but will not be described herein. Rather, only a description of planned cleanup measures are presented below.

4.1 PCB Contaminated Areas

The levels of PCB present at the two spill areas in the roadway north of the stock barn indicate that these areas should be cleaned. It is planned to accomplish this by excavation and removal of asphalt and soil where spillage is apparent. Excavation to several inches would probably remove PCB's sufficiently, but from a practical standpoint, excavation to approximately 12" is anticipated. The volume of excavated material is estimated at 800 cubic feet. Following excavation, one sample of underlying soil from each of these two areas will be collected for total PCB analysis. Results of these analyses will be reported to DEQ. The excavated material is intended to be disposed at the Arlington, Oregon hazardous waste site.

Disposal of drums of oil, water/oil and water stored on the roadway north of the stock barn will be as discussed below.

The other spillage areas at the site do not appear to warrant cleanup, since PCB levels are much lower than at the roadway north of the stock barn and only slightly above background concentrations.

4.2 Other Cleanup Measures and Wastes

Other hazardous wastes to be removed during cleanup include those paints and related materials in the holding barns, other chemicals and wastes (including PCB-contaminated oil and oil/water) inside and outside the buildings which are designated as RCRA or TSCA wastes in Table 1. Most of the materials in Table 1 have been designated as being or not being RCRA or TSCA wastes. However, some materials in Table 1 have not yet been designated, pending Phase 2 laboratory analyses. When the laboratory results are available, these remaining designations can be completed.

Note that Table 1 also indicates the disposition of all waste materials, to the extent this has been determined to date. Disposal and disposition methods indicated in Table 1 include RCRA approved disposal or treatment, TSCA authorized disposal, oil recovery, sewer, sanitary landfill or metal recovery, and reuse. Prior to disposal of any RCRA waste, a waste generator notification form will be completed and submitted to DEQ. Some drums containing materials to be disposed are in poor condition or are leaking. Accordingly, during cleanup activities, the contents of these drums need to be transferred to sound drums prior to being moved.

Reuse of paints via surplus sales outlets and similar means was attempted but without success. As noted previously above, 15% to 20% of these paints have dried such that they would not be classified as hazardous waste. Accordingly, these dried paints can be segregated for disposal at a local sanitary landfill.

Removal of nonhazardous materials from the site may be undertaken separately and may be completed shortly.

5 FIGURES, TABLES & LABORATORY REPORTS

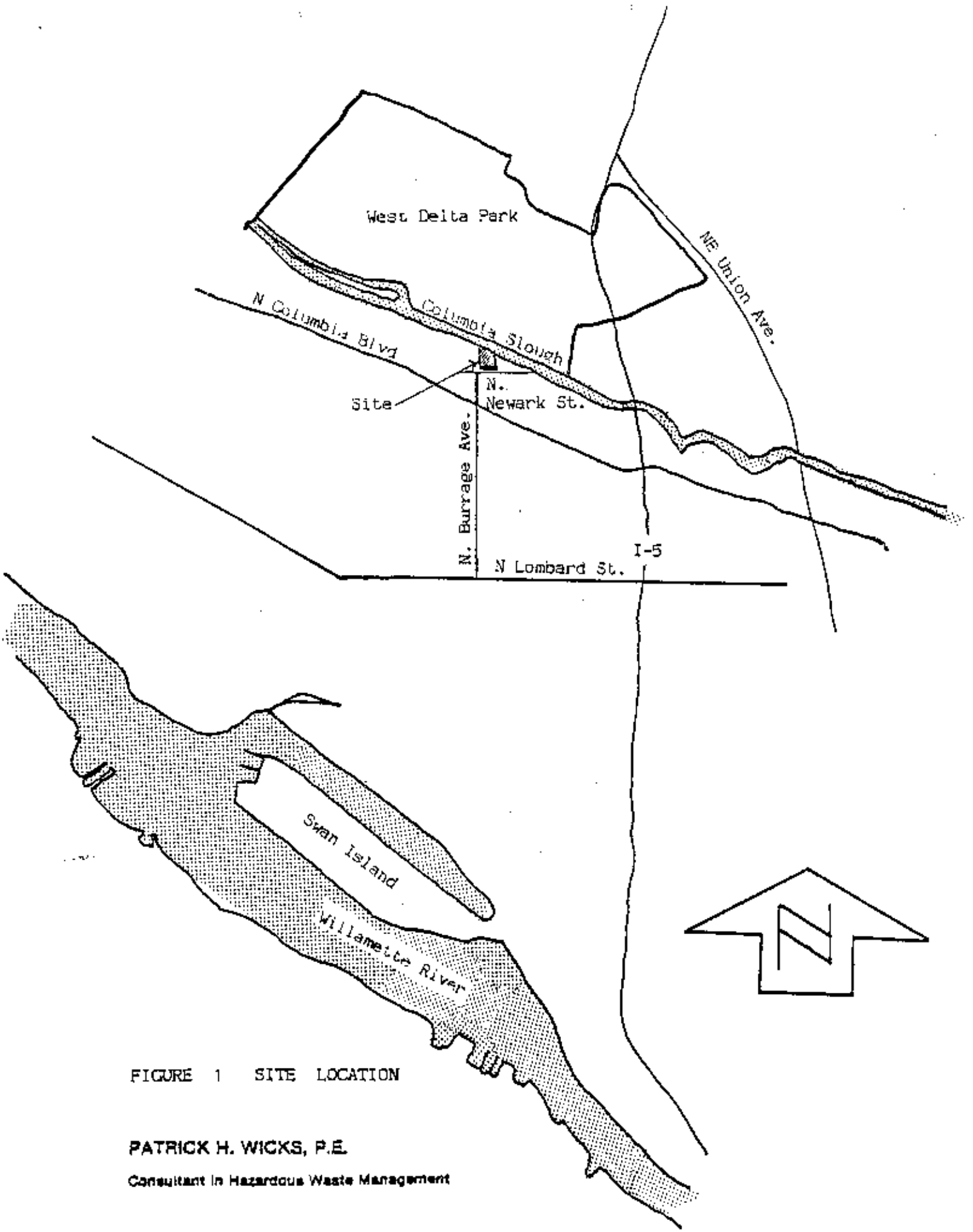
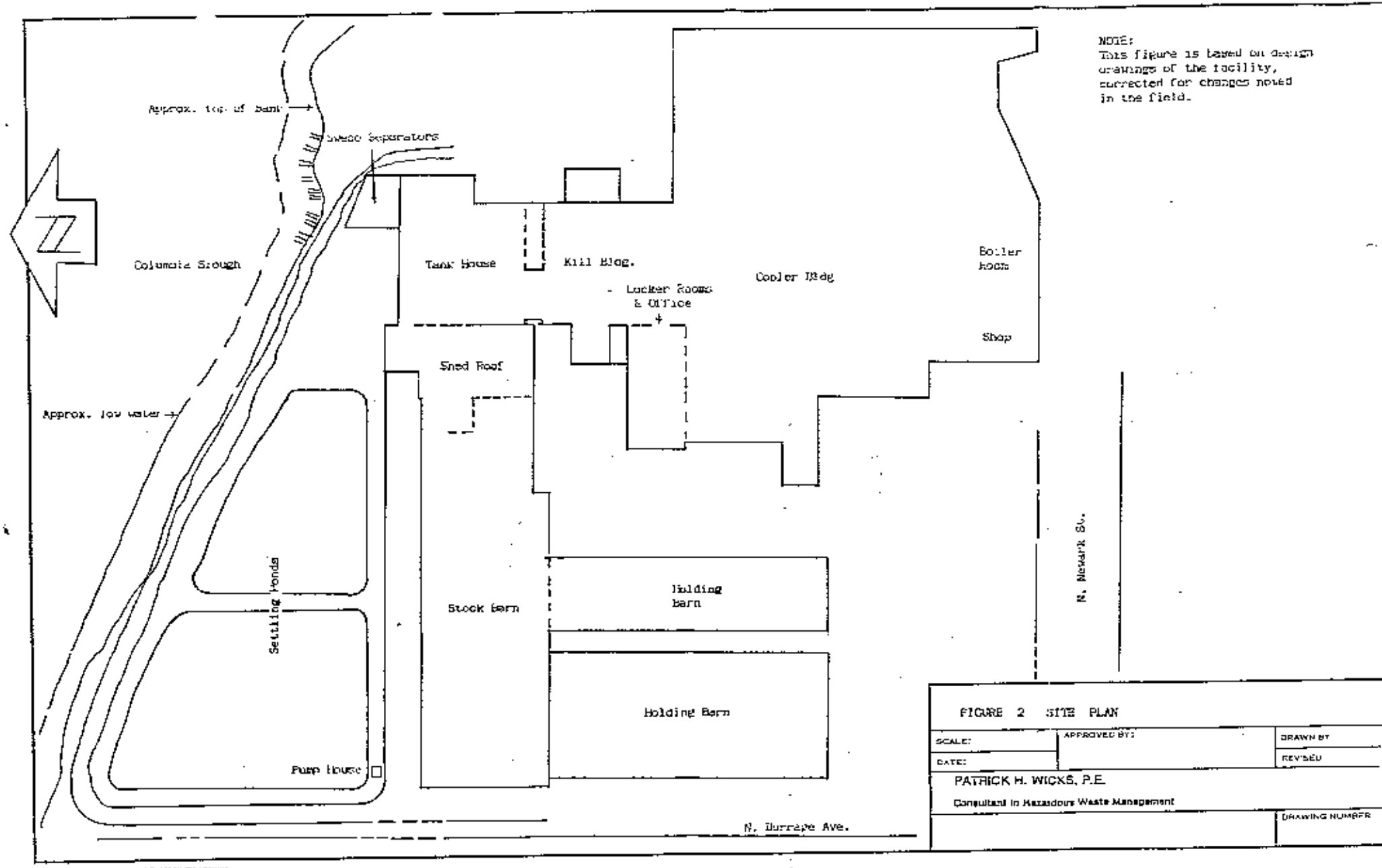


FIGURE 1 SITE LOCATION

PATRICK H. WICKS, P.E.

Consultant in Hazardous Waste Management


NOTE:
This figure is based on design drawings of the facility, corrected for changes noted in the field.
Approx. top of bank
Grease Separators
Columbia Slough
Tank House
Kill Bldg.
Cooler Bldg
Boiler Room
Locker Rooms & Office
Shop
Shed Roof
Approx. low water
Settling Ponds
Stock Barn
Holding Barn
Holding Barn
Pump House
N. Mewark St.
N. Burrage Ave.
FIGURE 2 SITE PLAN
SCALE:
APPROVED BY:
DRAWN BY
DATE:
REVISED
PATRICK H. WICKS, P.E.
Consultant in Hazardous Waste Management
DRAWING NUMBER

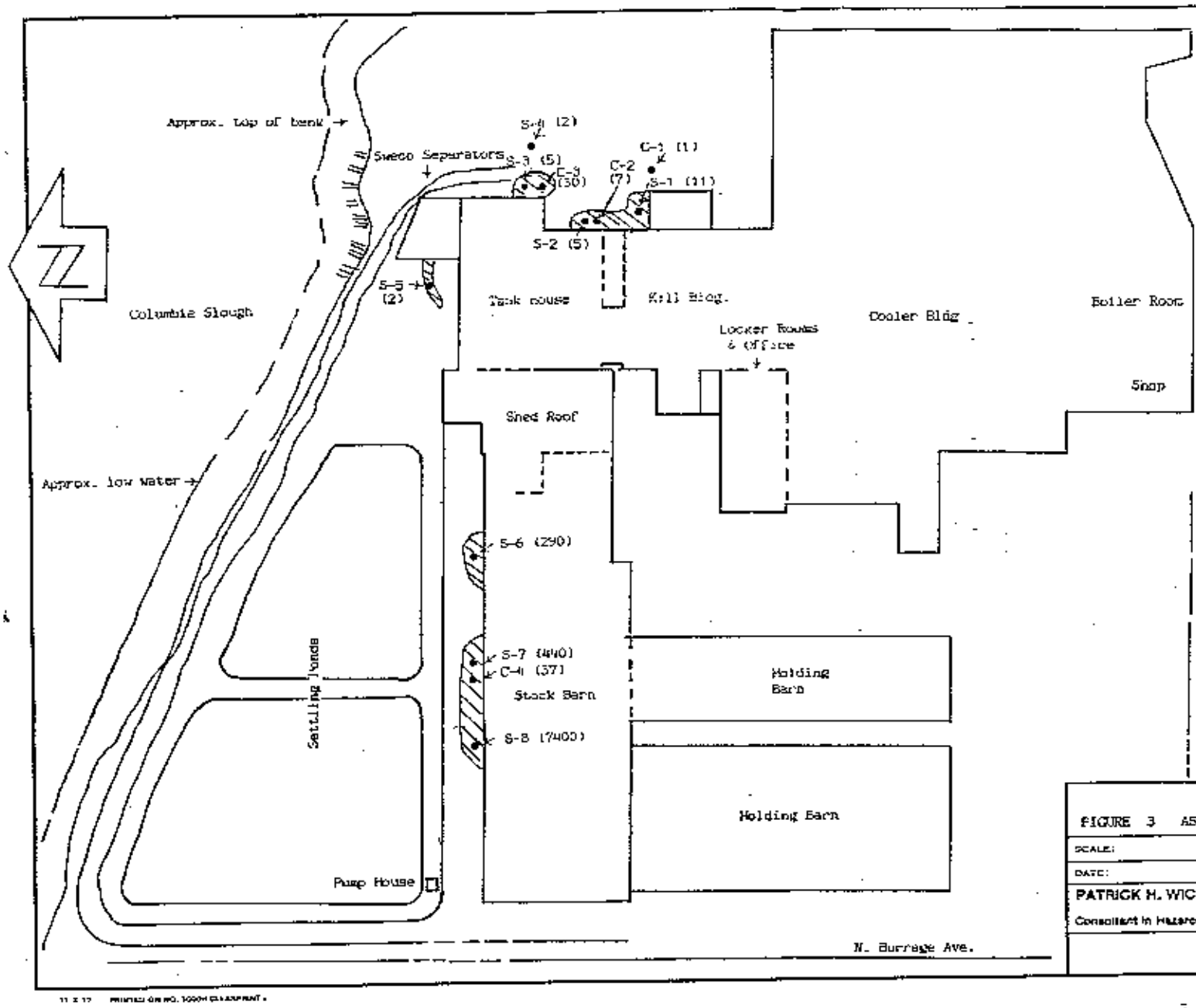


FIGURE 3 ASPHALT AND SOIL SAMPLE LOCATIONS/RESULTS

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

PATRICK H. WICKS, P.E.
Consultant in Hazardous Waste Management

DRAWING NUMBER

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA- BASEMENT UNDER OFFICE/LUNCH ROOM/COLD/SILVER RECLAIM)											
1	55	APPARENTLY CYANIDE VS. LABEL: D-SECT INSECT KILLER	RUSTED	Y ***VOLUME ?	***MARK	**SAMPLE			***	***	?
1	55	APPARENTLY CYANIDE VS. LABEL: H202	RUSTED	Y ***VOLUME ?	***MARK	**SAMPLE			***	***	?
2	5	UNKNOWN	PLASTIC	***VOLUME ?	***MARK	**SAMPLE			***	***	?
1	30	STEPITRON WEED KILLER		***VOLUME ?	***MARK	**SAMPLE			***	***	?
0		LEAKAGE FROM 1ST DRUM ABOVE			***	CYANIDE SOLID	CYANIDE	<0.1		NO	NONE
AREA- EAST OF TRUCK WASH											
1	5	PAINT	RUSTED	***MOVE TO PAINT STORAGE AREA	***MARK				PAINT	YES	RCRA
AREA- TRANSFORMER RECLAIM (EAST OF TANK HOUSE & KILL BLDG.)											
1	30	WATER		0.67	A	A	NO ANALYSIS		WATER	NO	S
1	30	OIL/WATER	CRUSHED	0.38	B	B	PCB/3	3	OIL/WATER	NO	O R
1	55	OIL/WATER		1.00	C	C & DUPLICATE	PCB/2/1	270	OIL/PCB/WATER	YES	TSCA
1	30	OIL/WATER		1.00	D	D	PCB/3/2	410	OIL/PCB/WATER	YES	TSCA
1	30	OIL/WATER		1.00	E	E	PCB/3/2	200 & 190	OIL/PCB/WATER	YES	TSCA
1	30	OIL/MOSTLY WATER		0.50	F	F	PCB/2/1	300	OIL/PCB/WATER	YES	TSCA
1	30	WATER		0.50	G	G	NO ANALYSIS		WATER	NO	S
1	30	OIL/MOSTLY WATER		0.33	H	***SAMPLE	PCB	SAMPLE LOST			?
AREA- UNDER SHED ROOF EAST OF STOCK BARN											
1	55	UNKNOWN	RUSTED/EMPTY	0.00							SLF
1	30	OIL		0.75	V	V	PCB/2/1	360	OIL/PCB	YES	TSCA
1	30	OIL		1.00	W	W	PCB/2/3/1	530	OIL/PCB	YES	TSCA
1	30		EMPTY	0.00	REMOVE	X NO SAMPLE					
1	30	OIL		1.00	Y	Y	PCB/2/3/1	580	OIL/PCB	YES	TSCA

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA- ROADWAY NORTH OF STOCK BARNS & WEST OF SWCO LOADING DOCK											
1	55	SWEET		0.10	I	I	ON HOLD		***	NO ?	S or SLF
1	55	ODOR,		1.00	J	J	ON HOLD		***	NO ?	S or SLF
1	55	DARK,		1.00	K	K	PCB, OIL ?	<1	NOT OIL; NOT SOLUBLE IN ISOOCTANE	NO ?	S or SLF
1	55	WATER-		1.00	L	L	ON HOLD		***	NO ?	S or SLF
1	55	MISCIBLE?		0.50	M	M	ON HOLD		***	NO ?	S or SLF
1	30	WATER ?		0.50	N	N	PCB/2/1	4	WATER	NO	S
1	30	WATER		1.00	O	O	PCB	<1	WATER	NO	S
1	30	OIL/WATER		1.00	P	P	PCB/2/3/1	19 & 13	OIL/WATER	NO	O R
1	30	OIL/WATER		0.33	Q	Q	PCB/2/3/1	1	OIL/WATER	NO	O R
1	30	OIL/WATER		1.00	R	R	PCB/2/3/1	9	OIL/WATER	NO	O R
1	55	OIL		1.00	S	S	PCB/3	62000	OIL/PCB	YES	TSCA
1	55	OIL		1.00	T	T & DUPLICATE	PCB/3	43000	OIL/PCB	YES	TSCA
1	55	OIL		1.00	U	U	PCB	<1	OIL	NO	O R
AREA- STORAGE TANKS											
1	55	GASOLINE	RUSTED	0.50	***MARK	***SAMPLE	FLASH POINT		***	***	?
AREA- HOLDING BARN B-3											
2	55	WASTE DMSO	RUSTED	***VOLUME ?	***MARK	***SAMPLE	PER LABEL CONTENTS		***	***	?
1	55	FERRIC CHLORIDE	RUSTED, PLASTIC LINER	***VOLUME ?	***MARK	***SAMPLE	PER LABEL CONTENTS		***	***	?
2	55	UNKNOWN	RUSTED	***VOLUME ?	***MARK	***SAMPLE	PER LABEL CONTENTS		***	***	?
12	5	REFRACTORY	PLASTIC		REMOVE				REFRACTORY	NO ?	SLF
2	55	GRAY POWDER			REMOVE				REFRACTORY	NO ?	SLF
AREA- HOLDING BARN AISLE 2											
70 ?	20 ML	MANGANOUS SULFATE	SOME BROKEN	Y	***	***SAMPLE	PER LABEL CONTENTS		***	***	?
20 ?	30-50 ML	STANDARD CHLORIDE SOLN.	SOME EMPTY	Y	***	***SAMPLE	METALS, CL		***	***	?
AREA -CAGE ROOM 7/26 INVENTORY											
1	5	BONDING MORTAR	SOUND		REMOVE				BONDING MORTAR	NO ?	SLF
		OIL SPILL FROM OIL FILTER ?			***				***	***	NONE
		MISC. ELECTRICAL EQUIPMENT			REMOVE				MISC. ELEC. EQ.	NO ?	SLF
13		1"x4"x10" NiCd BATTERIES			***				NiCd BATTERIES	***	RCRA

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA -TANK HOUSE											
1	55	ACETONE	SOUND ?	0.33	***MARK	***SAMPLE	PCB	NO SAMPLE 7/30, BEING RUSTED		***	?
1	55?	UNKNOWN	SOUND ?	0.75	***MARK	***SAMPLE	PCB	NO SAMPLE 7/30, BEING RUSTED		***	?
AREA -ELECTRICAL ROOM(S, OF TANK HOUSE) AND S. THEREOF											
2	55	SODIUM HYPOCHLORITE	SOUND	NO ?	***MARK				NA HYPOCHLORITE	NO ? ***REUSE	REUSE
2	55	MINERAL OIL ? OR EDIBLE OIL	SOUND WITH ORIGINAL SEALS	NO ?	***MARK				***CONFIRM	NO ?	O R
3	5	BREAKUP FOAMING GREASE CLEANSER	SOUND, PART FULL		***MARK				CLEANSER	NO ?	REUSE or SLF
1	5	MULTIPURPOSE DETERGENT	SOUND, PART FULL		***MARK				DETERGENT	NO ?	REUSE or SLF
AREA -OIL SPILLS OUTSIDE BUILDINGS											
		TRANSFORMER RECLAIM AREA-SOUTH SPILL AREA									
		ASPHALT				S-1	PCB/3	11	ASPHALT	NO	NONE
		ASPHALT				S-2	PCB/3	5	ASPHALT	NO	NONE
		BACKGROUND SOIL, EAST OF AREA				C-1	PCB/3	1	SOIL	NO	NONE
		ASPHALT				C-2	PCB/3	7	ASPHALT	NO	NONE
		TRANSFORMER RECLAIM AREA-NORTH SPILL AREA									
		ASPHALT				S-3	PCB/3	5	ASPHALT	NO	NONE
		ASPHALT				C-3	PCB/3/2	30	ASPHALT	NO ?	NONE
		BACKGROUND SOIL, EAST OF AREA				S-4	PCB/3	2	SOIL	NO	NONE
		SWEED SPILL AREA									
		ASPHALT				S-5	PCB/3	2	ASPHALT	NO	NONE
		ROADWAY NORTH OF STOCK BARNS EAST SPILL AREA									
		ASPHALT				S-6	PCB/3	290	ASPHALT/PCB	YES	TSCA
		ROADWAY NORTH OF STOCK BARNS-WEST SPILL AREA									
		ASPHALT				S-7	PCB/3	440	ASPHALT/PCB	YES	TSCA
		ASPHALT				S-8	PCB/3	7400	ASPHALT/PCB	YES	TSCA
		ASPHALT				C-4	PCB/3	37	ASPHALT	NO ?	TSCA

TABLE 1

CHEMICAL & WASTE INVENTORY, SAMPLING & ANALYSIS PLAN, MATERIAL IDENTIFICATION (1)

NO. OF CONTAINERS	CONTAINER SIZE, GAL	PRELIMINARY MATERIAL IDENTIFICATION PER LABEL OR APPEARANCE	CONTAINER CONDITION	LEAKING ? (Y = YES) OR VOLUME PRESENT (2)	MARK TO DESIGNATE NO REMOVAL DURING NON-HAZARDOUS CLEANUP (3)	SAMPLE NUMBER (4)	ANALYSIS PARAMETERS (5)	ANALYSIS RESULTS PPM (6)	ACTUAL MATERIAL IDENTIFICATION (7)	HAZARDOUS RCRA OR TSCA WASTE ? (8)	DISPOSAL ACTION OR DISPOSITION (9)
AREA -PAINT STORAGE						EPOXY PAINT	FLASH POINT P-M CC, DEG F	103	PAINT	YES	RCRA
AREA -SUMP WATER						***SAMPLE	PCB				
AREA -EAST LAGOON WATER						***SAMPLE	PCB				

FOOTNOTES

(1) THIS INVENTORY INCLUDES ALL MATERIALS EXCEPT THOSE IN PAINT INVENTORY.
(2) CONTENTS EXPRESSED AS A FRACTION OF FULL, I. E., 1.00 = FULL, 0.10 = 10% FULL.
(3) MATERIALS WITH SAMPLE NUMBER MARK (A,B,ETC.) NOT TO BE REMOVED DURING NON-HAZARDOUS CLEANUP, UNLESS "REMOVE" APPEARS IN THIS COLUMN. "***MARK" INDICATES THESE CONTAINERS STILL TO BE MARKED TO DESIGNATE THEY ARE NOT TO BE REMOVED, PENDING ANALYTIC RESULTS.
(4) SAMPLE NUMBERS ARE AS INDICATED. "**SAMPLE" DENOTES SAMPLES TO BE COLLECTED IN PHASE 2.
(5) FOR PCB ANALYSES RESULTS ARE FOR TOTAL PCB. THE PRIMARY PCB TYPE DETECTED IS ALSO INDICATED IN SOME CASES: 1 = PCB 1242; 2 = PCB 1254; 3 = PCB 1260.
(6) PCB ANALYTIC RESULTS FOR OIL/WATER SAMPLES ARE FOR OIL PORTION OF SAMPLE, NOT INCLUDING WATER.
(7) TYPE OF MATERIAL INDICATED IS BASED ON LABORATORY RESULTS OR OTHER INFORMATION. "***" DENOTES THAT NO IDENTIFICATION CAN BE MADE WITH EXISTING INFORMATION.
(8) INDICATION OF "YES" OR "NO" IN THIS COLUMN IS FAIRLY CERTAIN. "?" INDICATES LESS CERTAINTY. "***" DENOTES TO BE DETERMINED. "***REUSE" INDICATES CAN PROBABLY TRANSFERRED FOR REUSE AT LOW COST.
(9) RCRA = RCRA APPROVED DISPOSAL OR TREATMENT FACILITY; TSCA = TSCA AUTHORIZED DISPOSAL FACILITY; O R = OIL RECOVERY FACILITY; S = SEWER; SLF = SANITARY LANDFILL DISPOSAL OR METAL RECOVERY; REUSE = REUSE BY OTHERS; ? = CANNOT BE DETERMINED, PENDING SAMPLE RESULTS.

INVEN-TORY #	MANUFACTURER	PRODUCT TYPE	FLASH POINT, F (1)	SOLVENTS (2)	TOTAL GALLONS	HAZARDOUS WASTE?	SUMMATION OF HAZARDOUS, NON-HAZARDOUS & UNDETERMINED WASTE (3): YES	YES?	NO	NO?	?	PHASE 2 SAMPLES FOR FLASH POINT, P-M CC
1	JARVIE	ENAMEL	105		63	YES	63	0	0	0	0	
2	HENRY	LIN. ADHES.	NONE		31	NO	0	0	31	0	0	
3	STEV/HENRY	LIN. ADHES.			67	NO?	0	0	0	67	0	
4	SEAGUARD	EPOXY B	109	NAPHTHA	487	YES	487	0	0	0	0	
5	SEAGUARD	EPOXY A	103 (4)	BUTYL ALCOHOL	416	YES?	0	416	0	0	0	X
6	DEVOE/R	EPOXY B			75	YES?	0	75	0	0	0	X
7	DEVOE/R	EPOXY A			50	YES?	0	50	0	0	0	X
8	DEVOE/R	PRIMER	80	KETONE BUTYL ALCOHOL XYLOL	25	YES	25	0	0	0	0	
9	DEVOE/R	EPOXY	98	BUTYL ALCOHOL NAPHTHA	10	YES	10	0	0	0	0	
10	DEVOE/R	EPOXY A		BUTYL ALCOHOL	5	YES?	0	5	0	0	0	
11	DEVOE/R	EPOXY? B		NAPHTHA	10	YES?	0	10	0	0	0	
12	AMERON	ZN SILICATE	56	ISOPROPYL ALC XYLOL	10	YES	10	0	0	0	0	
13	MIL-P-23236	ZN SILICATE A			5	NO?	0	0	0	5	0	X
14	CORONADO	EPOXY 1	45	TOLUENE MEK BUTYL ALCOHOL NAPHTHA	90	YES	90	0	0	0	0	
15	XYLOL,MIBK		77 73	XYLOL(XYLENE) MIBK	20	YES	20	0	0	0	0	
16	CHENRAY	INTERIOR DECK			10	YES?	0	10	0	0	0	X
17	HARBISON	CORALITH			90	?	0	0	0	0	90	X
18	OCTAGON	VARNISH ASPHALT			130	?	0	0	0	0	130	X
19	DEVOE/R	FORMULA 219	79	KETONE BUTYL ALCOHOL XYLOL	20	YES	20	0	0	0	0	
20	FLAMEMASTER	EPOXY B			125	YES?	0	125	0	0	0	X
21	FLAMEMASTER	EPOXY A			114.5	YES?	0	114.5	0	0	0	X

TABLE 2 PAINT INVENTORY AND HAZARD DETERMINATION

INVEN-TORY #	MANUFACTURER	PRODUCT TYPE	FLASH POINT, F (1)	SOLVENTS (2)	TOTAL GALLONS	HAZARDOUS WASTE?	SUMMATION OF HAZARDOUS, NON-HAZARDOUS & UNDETERMINED WASTE (3) YES	YES?	NO	NO?	?	PHASE 2 SAMPLES FOR FLASH POINT, P-M CC
22	DEXTER	LAMINAR X-500	32	TOLUENE MEK	1	YES	1	0	0	0	0	
23	AM. ABRASIVE	DECK..NONSLIP	84	XYLENE BUTYL ALCOHOL	15	YES	15	0	0	0	0	
24	MOBIL MARINE	WHITE BASE			5	YES?	0	5	0	0	0	X
25	ENMAR	..ANTIFOULING..	84	XYLENE MIBK	70	YES	70	0	0	0	0	
26	PALMER	EPOXIT NONSKID			5	YES?	0	5	0	0	0	X
27	PROD. RESEARCH	PR-1154,PART A	120		6	YES	6	0	0	0	0	
28	PROD./TECHNICS	..ANTIFOULING..	80	XYLENE	5	YES	5	0	0	0	0	
29	CROSSFIELD	DEX-O-TEX	NONE		115	NO	0	0	115	0	0	
30	CROSSFIELD	QUICK SET PASTE	>350		5	NO	0	0	5	0	0	
31	CON-LUX	FIRE..BINDER..			96	?	0	0	0	0	96	X
32	SEAGUARD	PA.POLYISOB..			135	YES?	0	135	0	0	0	X
33	DAVIN	ALKYD..			90	YES?	0	90	0	0	0	X
34	SOVAPON	TANK COATING			110	YES?	0	110	0	0	0	X
35	ATLAS	PRIMER,VINYL	24	XYLENE MEK MIBK	85	YES	85	0	0	0	0	
36	LYLE VANPATTEN	ENAMEL ALKYD	102	MIN.SPIRITS	120	YES	120	0	0	0	0	
37	ATLAS	P.ALUMINUM	108	TOLUENE NAPHTHA BUTYL ALCOHOL	5	YES	5	0	0	0	0	
38		UNKNOWN			25	?	0	0	0	0	25	X
39	DEVOE/R	UNKNOWN			95	YES?	0	95	0	0	0	X
38		UNKNOWN			55	?	0	0	0	0	55	X
				TOTALS	2894.5		1032	1240.5	154	72	396	

(1) FROM MATERIAL SAFETY DATA SHEETS AND OTHER DATA PROVIDED BY PSNS; NOT INCLUDING GLYCOLS AND CELLOSOLVE ACETATE.
(2) FROM MATERIAL SAFETY DATA SHEETS AND OTHER DATA PROVIDED BY PSNS; FLASH POINT METHODS INCLUDE PMCC AND OTHERS.
(3) 15% TO 20% OF THE PAINTS HAVE DRIED AND WOULD NOT QUALIFY AS HAZARDOUS WASTE. THIS PROPORTION HAS NOT BEEN SUBTRACTED FROM THE AMOUNTS DESIGNATED AS HAZARDOUS WASTE IN THIS TABLE.
(4) FROM LABORATORY RESULTS.

COFFEY LABORATORIES, INC.
4914 N.E. 122nd Ave.
Portland, OR 97230
Phone (503) 254-1794

September 24, 1985
Log #A850731-E
CORRECTED REPORT

Petko Enterprises
2871 N. Clark Ct.
Cornelius, Oregon 97113

Analyses Requested: PCB, Cyanide, and Flash Point

DRUM	SAMPLE DESCRIPTION	PCB	MAIN AROCHLOR
B	Oil & Water	3	1260
C	Oil & Water	270	1254, 1242
D	Oil & Water	410	1260, 1254
E	Oil & Water	200	1260, 1254
	Dulpicate	190	1260, 1254
F	Oil & Water	300	1254, 1242
K	Sweet Smelling Material	< 1	----
N	Sweet Smelling Material	4	1254, 1242
O	Water	< 1	----
P	Oil & Water	19	1254, 1260, 1242
	Duplicate	13	1260
Q	Oil & Water	1	1254, 1260, 1242
R	Oil & Water	9	1254, 1260, 1242
S	Oil	62,000	1260
T	Oil	43,000	1260
U	Oil	< 1	----
V	Oil	360	1254, 1242
W	Oil	530	1254, 1260, 1242
Y	Oil	380	1254, 1260, 1242
S1		11	1260
S2		5	1260
S3		5	1260
S4		2	1260
S5		2	1260
S6		290	1260
S7		440	1260
S8		7400	1260

Results in mg/Kg

< denotes "less than"

THIS REPORT CONTINUES

COFFEY LABORATORIES, INC.
4914 N.E. 122nd Ave.
Portland, OR 97230
Phone: (503) 254-1794

September 24, 1985
Log #A850731-E
CORRECTED REPORT

Petko Enterprises
Page Two

Analyses Requested: PCB, Cyanide, and Flash Point

SAMPLE ID	CYANIDE	FLASH POINT
From Floor of By-Product Locker Room	< 0.10 mg/kg	
Epoxy Paint Pensky Marten (closed cup)		103 degrees F

< denotes "less than"

Sincerely,

Susan M. Coffey

Susan M. Coffey,
President

SMC/gs

COFFEY LABORATORIES, INC.
4914 N.E. 122nd Ave.
Portland, OR 97230
Phone: (503) 254-1794

June 7, 1985

Log #A850522-E

Crowley Environmental
6208 N. Ensign St.
P.O. Box 17178
Portland, Oregon 97217-0178

Attention: Michael Cook

Analysis Requested: PCB

Sample Received: May 22, 1985

Date of Completion: June 7, 1985

CLIENT ID	AMT PCB'S	MAIN AROCHLOR
5050 #1 10:15	1 mg/kg	1260
5050 #2 10:30	7 mg/kg	1260
5050 #3 10:40	20 mg/kg	1260, 1254
5050 #4 10:50	87 mg/kg	1260

Spike Recovery: 113%

Sincerely,

Susan M. Coffey

Susan M. Coffey
President

SMC/gs

6 REFERENCES

(1) L. Ludu, 1985. Personal communications between L. Ludu, former maintenance supervisor, Pacific Meat Company, and P. Wicks.

(2) P. Haney, 1985. Personal communication between P.Haney and D. Leeding, P. Wicks.

(3) Pacific Western Bank, 1985. Personal communications between D. Leeding (Pacific Western Bank) and P. Wicks or DEQ.

ATTACHMENT

VI

TELEPHONE USE REPORT

TO BE USED ON ALL LONG DISTANCE TELEPHONE CALLS, INCOMING OR OUTGOING, AND ANY LOCAL CALLS MERITING RECORDING

PREPARE IMMEDIATELY - SUBMIT DAILY

ROUTING

CALL FROM: Sherry Evans-Carmichael

TITLE: Environmental Protection Specialist

LOCATION & PHONE NO.: EPA-Oregon Operations Office
503/221-3250

DATE: 1/23/86

TIME: 4:10 P.M.

CALL TO: Mike E. Cook

TITLE: Crowley Environmental

LOCATION & PHONE NO.: 6208 N. Ensign, Portland, OR
503/283-1244

SUMMARY OF CALL:

I called Mr. Cook to verify that the site he had called me about in June of 1985 was the same site as Pacific Meat Company, 2701 N. Newark Street, Portland, OR (Multnomah Co.). Mr. Cook did verify that Pacific Meat Co., site described above, was the same site. Mr. Cook said that his company had done the preliminary testing on the site. When he entered the facility, he entered at a level B protection and was surprised at how bad the site appeared. After their preliminary testing was complete, he referred Mr. Douglas Leeding (Pacific Western Bank) to Mr. Patrick H. Wicks because he felt the site warranted additional sampling and cleanup.

During our conversation, I said that I had quickly glanced over the work plan for the site and felt that testing for dioxins and furans should be included because Mr. Haney had allegedly burned PCB contaminated oil as fuel for his smelting activities.

Mr. Cook did ~~[illegible]~~ state that soot and soot smudges were present on the site. (over)

Sherry Evans-Carmichael
(Signature)

Mr. Cook thought that Riedel Env. had won that bid.

I will provide DEQ with a copy of this telephone report for their files and suggest that they request a copy of Mr. Cook's Preliminary Report, that was completed on the site. Mr. Leeding would probably be able to provide a copy of the report.

ATTACHMENT

VII

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10

JAN 22 1986

REPLY TO ATTN OF: 000

MEMORANDUM

SUBJECT: Trip Report January 7, 1986

FROM: Sherry Evans-Carmichael

TO: Chip Humphrey

On January 7, 1986 (Tuesday) I surveyed locations of the following four (4) "potential" hazardous waste sites in Multnomah County and the City of Portland in Oregon:

1. Northwest Cast Metal Products, Inc.
   2601 N. Newark Street
   Portland, Oregon 97217

The address of this facility is incorrect. The correct address is 2701 N. Newark Street, Portland, Oregon. This location was the site of Pacific Meat Company, alias Northwest Cast Metal Products, Inc. The correct address was determined by file information from the Environmental Protection Agency (EPA), the Oregon Department of Environmental Quality (DEQ), the Multnomah County tax offices and an interview with a Mr. Paul Schroeder, Maintenance Director for Conagra, Inc. (formerly Armour Food Company). According to the County tax records, there is no 2601 N. Newark Street in Portland, Oregon.

Mr. Schroeder could recall Mr. Peter O. Haney and located one area of Mr. Haney's smelting activities on the Pacific Meat Company property. If sampling is scheduled for this facility in the near future, it is suggested that areas #1 and #2 (Figure 1) be sampled. The samples should be tested for PCBs, cyanide, and metals, including at a minimum: aluminum, lead, copper, cadmium, and chromium. It is alleged that Mr. Haney used transformer oil as a source of fuel for his smelter, so it may also be prudent to test for dioxin and furan compounds.

Page 42 of the EPA Hazardous Waste Site Inventory for Portland, Oregon and Vancouver, Washington, dated April, 1982, clearly shows the location of this facility (listed as site 63). The picture also shows the location of two discharge points into the Columbia Slough #3 and #4 (Figure 1), as well as a dump area. These areas should also be tested for PCBs, dioxins, furans, and metals (sediment and water) to determine what, if anything, is discharging into the Slough.

Note: During my research to determine whether or not area #1 (Figure 1) would be sampled and tested for metals and PCBs, I quickly reviewed the Pacific Western Bank cleanup plan (September, 1985) for this location. During my review I noted that the flash point of the paint material was the only criteria taken into consideration when attempting to determine whether or not the material was hazardous. Metals should have also been considered. I called Mr. Chuck Clinton of the Department of Environmental Quality on January 8, 1986 to notify him of the potential oversight and he said that he would check into the matter.

2. Broad Spectrum Electronic and Northwest Cast Metal Products
   79 S.E. Taylor Street
   Portland, Oregon 97214

This location is a building that housed a laboratory and was used as a storage location for electrical equipment that had been accumulated by Mr. Haney.

3. Northwest Cast Metal Products, Inc.
   9300 N. Burrage Avenue
   Portland, Oregon 97217

This address is the same location as 2701 N. Newark Street, Portland, Oregon, 97217.

4. Northwest Cast Metal Products, Inc.
   9200 N. Endicott Avenue
   Portland, Oregon 97217

One section of this property is currently owned by Malarkey Roofing Company and the other section is being purchased by Malarkey Roofing Company. There are two locations on this property that Mr. Haney potentially had storage areas, smelting operations and possibly salvage operations. This site (site 61) is shown on page 42 of the April, 1982 EPA Hazardous Waste Site Inventory for Portland, Oregon and Vancouver, Washington. The aerial survey also noted a pipeline and an underwater discharge point that should be investigated.

A discussion with Mr. Bill Allinger, Plant Engineer for Malarkey Roofing, verified an EPA Memo by Mr. Al Goodman dated December 12, 1981, that Mr. Haney had leased property from Malarkey Roofing at this location.

5. Broad Spectrum Electronics
   424 S.E. Grand Avenue
   Portland, Oregon 97214

This address is currently vacant and was once leased by Mr. Haney. It is alleged that Mr. Haney sold small electrical capacitators potentially containing PCBs from this shop and may have stored articles containing PCBs in the basement of the building.

cc: Charles Clinton, DEQ

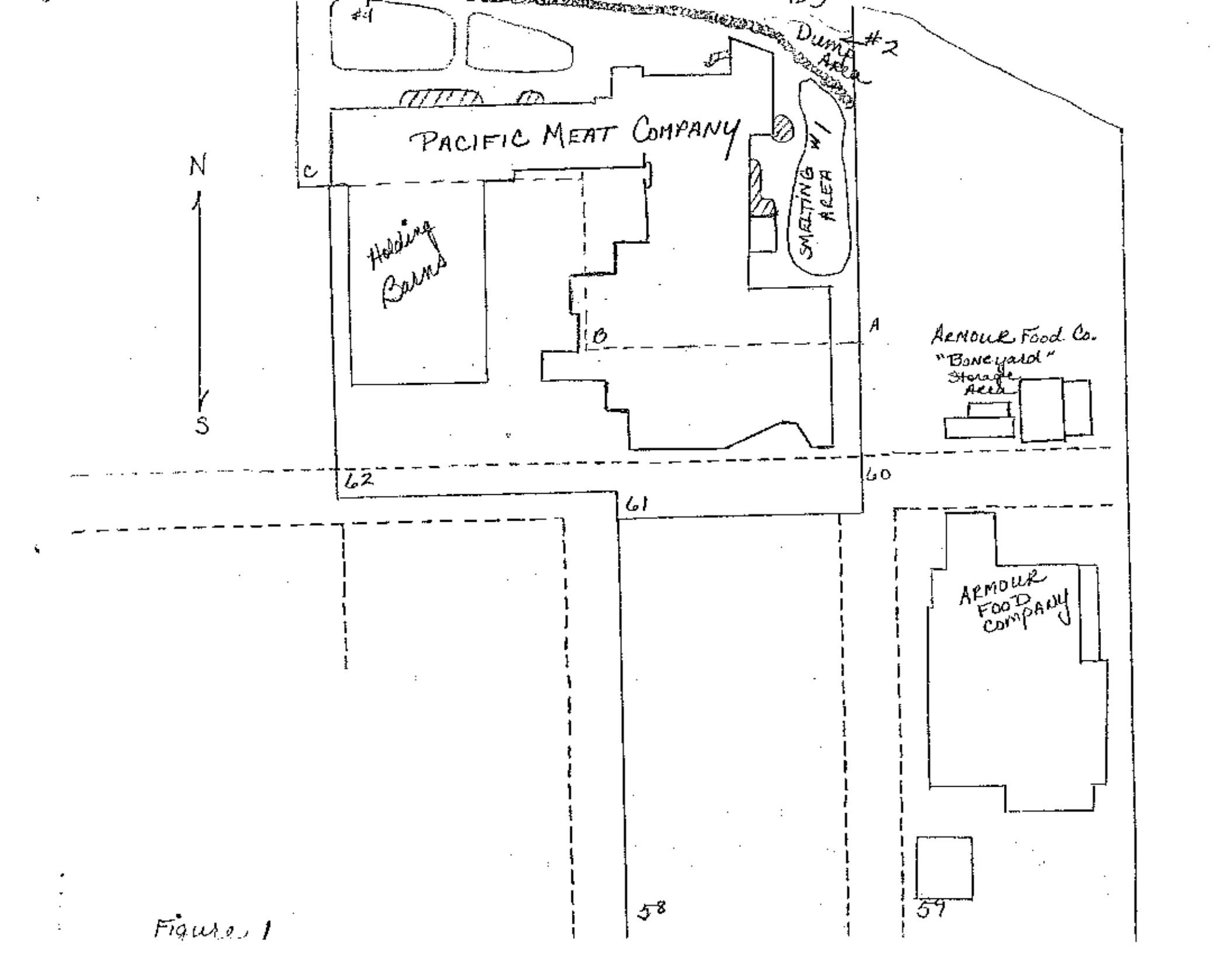

#1
#2
Dump Area
PACIFIC MEAT COMPANY
N
S
C
Holding Barns
SMELTING AREA
B
A
ARMOUR Food Co.
"Boneyard"
Storage Area
62
61
60
ARMOUR FOOD COMPANY
58
59

Figure 1

ATTACHMENT

VIII

EPA

STATE OF OREGON

DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE MEMO

TO: Van Kollias,
Enforcement Section

DATE: December 12, 1984

FROM: C. R. Clinton,
Northwest Region

SUBJECT: AQ-General
Open Burning
Multnomah County

On November 26, 1984 at approximately 8:15 p.m., I received a call from the Emergency Management Division concerning a fire that the Portland Fire Bureau had responded to. The fire involved the open burning of five transformers. The Fire Bureau's main concern was whether the transformers might contain significant levels of polychlorinated biphenols (PCB). An employee of the business had indicated that yellow hazardous labels had been removed from the transformers and this was part of the Fire Bureau's concerns. I called the Fire Bureau and they requested that we sample the transformers for PCBs. I told them that we would do this the next morning.

On November 27, 1984, Peter Ressler and I went to the business which is Auric Enterprises located at 10200 N.E. Sixth Drive. We met Battalion Chief Monogue there and he updated us on their involvement in the open burning. A summary similar to what he gave us is attached as a memo from Lt. John J. Powell. Because of the possibility that the transformers contained PCBs, after being briefed by Chief Monogue, we went out and obtained a sample of the oil in one of the transformers. While we were sampling, Peter Haney arrived on the scene. He had with him a copy of a lab analysis sheet which showed that all of the five transformers contained less than 50 ppm of PCBs.

During our site visit, we noticed that five transformers had been set on fire to burn out the insulation off the copper wire so it could be reclaimed. I told Mr. Haney that this type of burning was illegal. His response was that he had been doing this for several years. In talking with some of the complainants, they indicated that he had burned periodically since he had occupied the site, which was in June or July of this year.

Prior to being located at the N.W. Sixth site, he was located at the foot of N. Endicott Street just north of Columbia Boulevard. At this location, he was operating under the business name of Northwest Cast Metal Products. He was inspected at this site on December 12, 1981 by Al Goodman; EPA. During Mr. Goodman's inspection, he noted two transformers on the site which Mr. Haney claimed were empty. We have not received any complaints of

Mr. Haney open burning at the N. Endicott Street site. At that time, Mr. Haney indicated that Northwest Metal Castings did a lot of lead casting. However, the Department did not have a permit for the business.

On November 28, Peter Ressler, Janet Gillaspie and I again returned to the Auric Enterprises' site on N.E. Sixth and looked around and took some pictures. In addition to the transformers, we observed that there were a couple of other burning sites. One of the sites contained several mattress springs and it appeared that several mattresses had been burned there. We also observed another burning site where it appeared that open burning had been conducted, but there was nothing that could be identified in this ash pile. Also on the site, we observed a refractory lined container which had been used in the past for smelting. While we were on the site, Mr. Haney arrived. At this time, I asked him if we could look inside the building because the fire department had told us that there was a tank inside which might contain PCBs. I explained to Mr. Haney that this was the reason that we wanted to look inside the building and he denied us entry. Therefore, we left the site.

It is recommended that Mr. Haney be given a civil penalty greater than the minimum because of the nature of the violation and it appears that he has burned for some time on the site. Also it is recommended that the penalty be more than minimum because of his lack of cooperation in proceeding with our investigation of the PCBs at the site and the nature of the material being burned.

Since we were not able to complete the investigation of PCBs, by carbon copy of this memo, we are referring the matter to EPA for completion of the investigation.

CRC:b
RB4065
cc: Air Quality Division
Hazardous Waste Operations
Al Goodman, EPA, OOO

MAR 1 5 1982

NW Cast Metal Parts

Al Goodman
Oregon Operations Office

Jim Everts - M/S 524

After several unsuccessful attempts during the past three weeks, I delivered the Notice of Violation letter for NW Cast Metal parts to Mr. Pete Haney on March 12, 1982. Delivery was made at about 1:30 p.m. as Mr. Haney was getting into a car parked in front of his office at 79 S.E. Taylor, Portland. He accepted the letter and responded, "Okay. Thanks."

cc: Don Donaldson

AGoodman/ks 3/15/82 ID# 0154A

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION X

1200 SIXTH AVENUE

SEATTLE, WASHINGTON 98101

REPLY TO ATTN OF: M/S 524

RECEIVED

MAR 1 1982

Dept. of Environmental Quality

RECEIVED

NOV 28 1984

Oregon Operations Office
EPA—REGION X

NORTHWEST REGION

Certified Mail

Northwest Cast Metal Products, Inc.
Attn: Mr. Pete Haney
79 S.E. Taylor
Portland, Oregon 97214

Dear Mr. Haney:

On December 12, 1981, Alan Goodman of my staff inspected your Northwest Cast Metal Products, Inc. facility in Portland, Oregon. The inspection was carried out to determine compliance with the PCB Regulations adopted by EPA pursuant to the Toxic Substances Control Act (TSCA).

During the inspection, violations of these regulations were noted. You should be aware that violations of TSCA may be subject to administrative civil penalties. The following identifies in detail the violations observed during the inspection:

Marking

40 CFR Part 761.20(a) requires PCB Containers, PCB Transformers and PCB Large High or Low Voltage Capacitors to be marked in accordance with 40 CFR Part 761.44(a) (Annex V).

At least five PCB (Pyranol) Capacitors were not marked.

Within 30 days of your receipt of this letter, please advise us of the corrective action you will take to bring your facility into compliance with the PCB Regulations. Inquiries or correspondence should be directed to Donald A. Donaldson, EPA, Region 10, 1200 Sixth Avenue, M/S 524, Seattle, Washington 98101; telephone (206) 442-1090. He will be pleased to discuss any questions you may have regarding this matter.

Sincerely,

Alexandra B. Smith

Alexandra B. Smith, Director
Air & Waste Division

January 29, 1982
Date

PCB Inspection Narrative

Facility

Northwest Cast Metal Products, Inc.

Current Office Address

79 S. E. Taylor
Portland, OR 97214

Past Address

9300 North Burrage
Portland, OR

Background

On December 4, Bill Freutel and I visited the office of Northwest Cast Metal Products for purposes of conducting a PCB Inspection. We were told by the firm's secretary, Marilyn Wright, that Mr. Pete Haney, President of NW Cast Metal Products was not available. I left my business card with Ms. Wright and requested that Mr. Haney call me. Later in the day we returned to the company's office and waited for about two hours for Mr. Haney to arrive. When we left at 3:00 p.m., Mr. Haney had not arrived.

On December 8 Mr. Haney called me after I had previously telephoned his office. We arranged to meet at 9:30 a.m. on December 9 in his office on S. E. Taylor.

Pre-Inspection Conference

I met with Mr. Pete Haney at 9:30 a.m. on December 9, presented my credentials, issued the Notice of Inspection and Notice of Confidentiality to Mr. Haney, and discussed both documents with him. I explained that the purpose of my inspection was to determine if the company handled PCBs and to document compliance with the PCB regulations.

Mr. Haney explained that NW Cast Metals is actively in the scrap business. He has several industrial accounts (such as Intel) from which he picks up scrap for purposes of resale. He has also had U.S. government contracts in the past. He sends aluminum scrap to New Era Smelting (in Portland). NW Cast Metals used to perform a lot of lead casting (300,000 lbs./year) but the market has been slow recently; he estimated lead castings at 20,000 lbs. for the past 18 months. Mr. Haney uses propane as fuel for lead smelting. Mr. Haney stated he did not handle scrap copper smelting. He stated he had been in the scrap business for 11 years.

Mr. Haney is also associated with another firm, Broad Spectrum Electronics, which buys and sells surplus electronic equipment. This firm is a subsidiary (dba) of NW Cast Metals.

Mr. Haney stated he does not handle capacitors because there is no scrap value. He stated he never handled capacitors.

I also questioned him about transformers. He acknowledged picking up a batch of three transformers about three years ago from a utility in eastern Oregon. These were large transformers and he stated there were no indications they contained PCBs. He stated the oil removed from these transformers was sold to B&G Oil Filtering (in Portland) on a one-time basis. Mr. Haney stated that he has not handled any other transformers.

Mr. Haney acknowledged that he is in the process of moving his scrapyard from the North Burrage address to a yard on North Endicott (about one mile west). I told him I had observed on December 4 two transformers and ten capacitors in the yard on North Endicott after gaining permission to access to that site from Richard Gresham who stated he worked with Mr. Haney in a wood hauling business. Mr. Haney stated that the two transformers were empty casings only, and were from his transformer purchase several years ago.

Mr. Haney stated further that he was not specifically aware of the capacitors in his yard, but that they may have come from a purchase of scrap items from Channel 12 television station (in Portland) in the summer of 1980. He stated he would be holding the capacitors for resale.

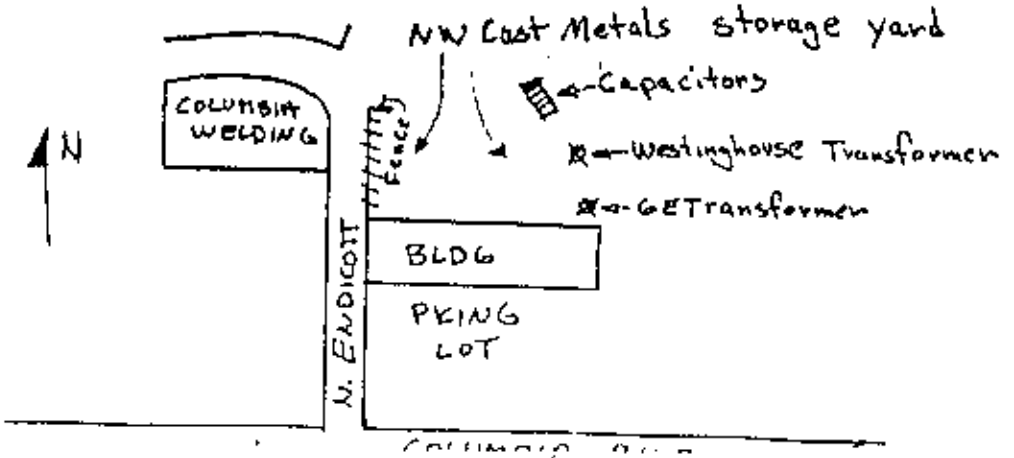
Mr. Haney again stated no other capacitors or transformers have been handled by NW Cast Metals. Also, the firm does not accumulate nor handle waste oil, and no other storage yards besides North Endicott are used by NW Cast Metal Products for storing scrap metals.

I requested and received permission from Mr. Haney to enter upon and inspect his storage yard on North Endicott.

I left with Mr. Haney a copy of the PCB regulations (May 31, 1979) after briefly discussing the same with him. I also indicated that if he had PCB capacitors they needed to be marked according to the EPA regulations.

Inspection of Facility

Following my discussion with Mr. Haney, I proceeded to the North Endicott yard (Mr. Haney declined an invitation to accompany me). I observed in the storage yard two transformers, each sitting on a wood pallet, and a group of ten capacitors on a pallet. The diagram below shows the relative location of the transformers and capacitors.



PCB Inspection at N.W. Cast Metal Products, Portland, Oregon

Al Goodman

Jim Everts - M/S 524

Thru: John Vlastelicia

On December 9, 1981, I conducted a PCB inspection at the facility listed above. The following documents are attached:

a. PCB Inspection Narrative
b. Inspection Photographs
c. Notice of Inspection
d. Notice of Confidentiality

A copy of the Notice of Confidentiality was mailed Certified Mail - Return Receipt Requested to the facility owner, Mr. Haney, on December 9. To date, the return receipt has not been received.

Please contact me if there are any questions.

Attachments

AGoodman/kd 12/16/81 12/16/81
JVlastelicia

PCB Inspection Narrative

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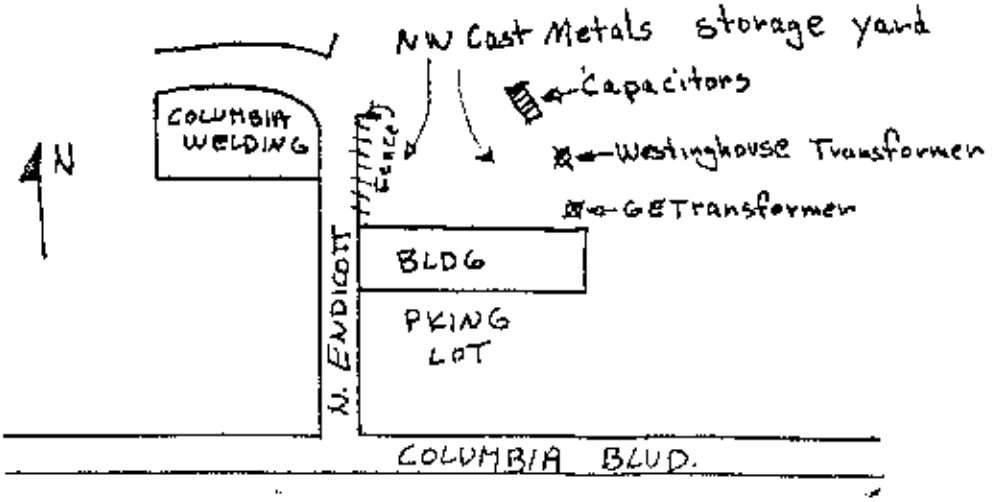
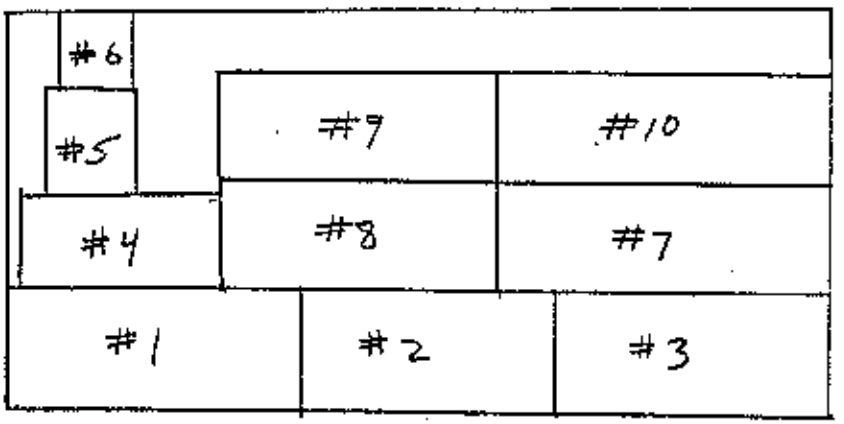


Identification markings on the two transformers are as follows (taken from nameplates):

Transformer #1 (approximately 6 feet high x 4 feet diameter)
General Electric Company
#2695110 Type H
Form KD 400 KVA Capacity
Use No. 10 Transil Oil

Transformer #2 (approximately 4 feet high x 3 feet diameter)
Westinghouse
Insuldur Distribution Transformer
500 KVA
Ser. 64SE719 Style 12V4610
"S" Wescor Core

Markings on the capacitors was observed as follows:



TOP VIEW

#s used for illustration purposes only!

Capacitor #1
General Electric
Pyranol Capacitor
Cat 14F418
10 MUF 6 KVDC
SN K86836
Description: light grey color; size - approx. 4" deep x 12" high x 15" wide

Capacitor #2
K-984629-325
TK 70090J-1
NMFD 7500 VDC
Cornell - Dubilier
Description: dark grey color; size - approx. 4" deep x 12" high x 15" wide

Capacitor #3
General Electric
Pyranol Capacitor
Cat 14F422
9 MUF 7.5 KVDC
SN N43424
Description: light grey color; size - approx. 4" deep x 12" high x 15" wide

Capacitor #4 (nameplate)
General Electric
Pyranol Capacitor
J137245
Cat. 14F409
4000 volts D.C.
MUF 13
Description: light grey color; size - approx. 3" deep x 10" high x 8" wide

Capacitor #5
K - 984629-325
TK 70090J-1
9 MFD 7500 VDC
Cornell - Dubilier
Description: dark grey color; size - approx. 4" deep x 12" high x 15" wide

Capacitor #6
General Electric
Pyranol Capacitor
#J127661
Cat. 14F409
4000 volts D.C.
MUF 13
Description: light grey color; size - approx. 3" deep x 10" high x 8" wide

Capacitor #7
General Electric
Pyranol Capacitor
Cat 14F418
10 MUF 6KVDC
SN K81339
Description: light grey color; size - approx. 4" deep x 12" high x 15" wide

Capacitors #8, 9, and 10 were not checked for markings, however.

I looked on all four sides of capacitors #1 through 7 and did not observe any PCB label M$_L$.

Photographs of the two transformers and ten capacitors were taken as follows:

Photos 1 and 2 - General Electric Transformer
Photos 3, 4, and 5 - Westinghouse Transformer
Photos 6, 7, 8, and 9 - capacitors

Based upon my observations and discussion with Mr. Haney, it appears that the capacitors are in non-compliance with the EPA PCB Regulations due to the lack of proper marking M_L.

No Post-Inspection conference was held.

Alan S. Goodman 12-16-81

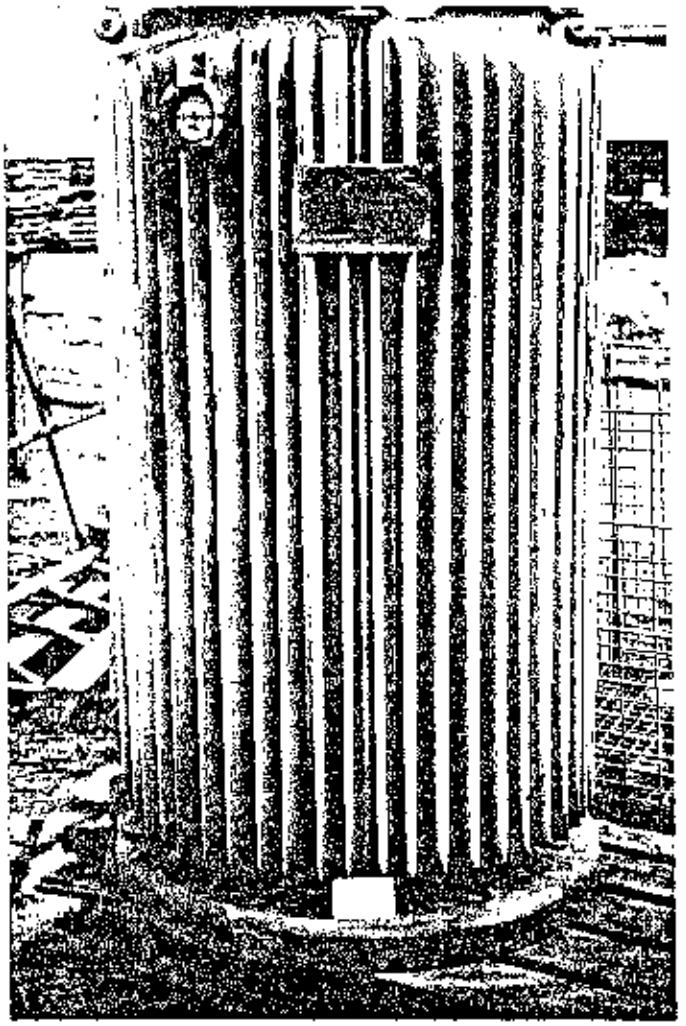


Photo #1

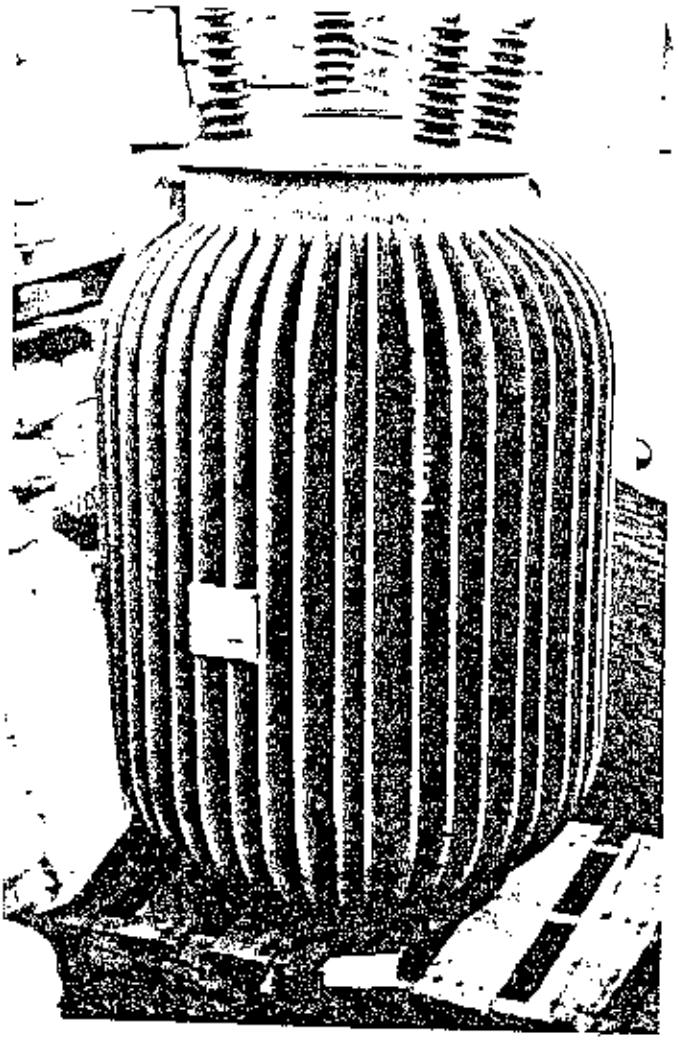


Photo #3

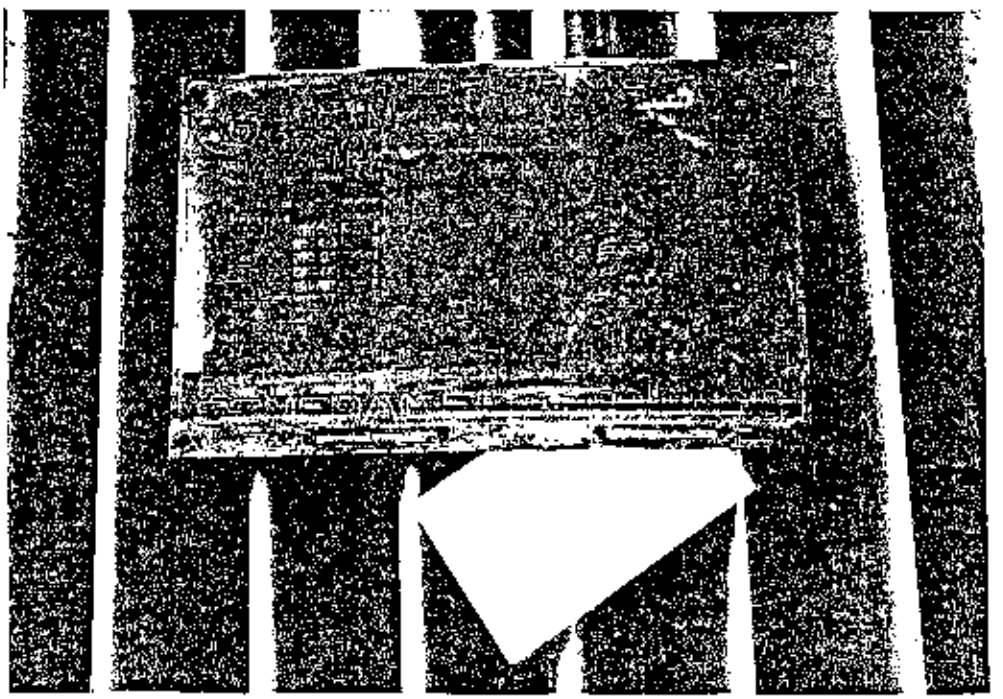


Photo #2

NW Cast Metal Products

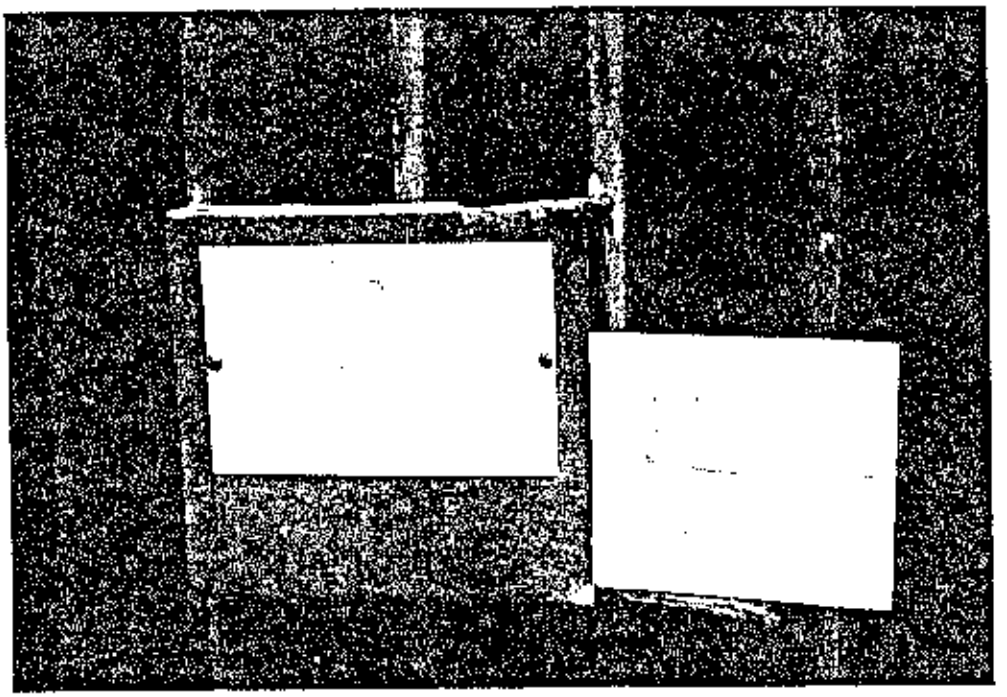


Photo #4

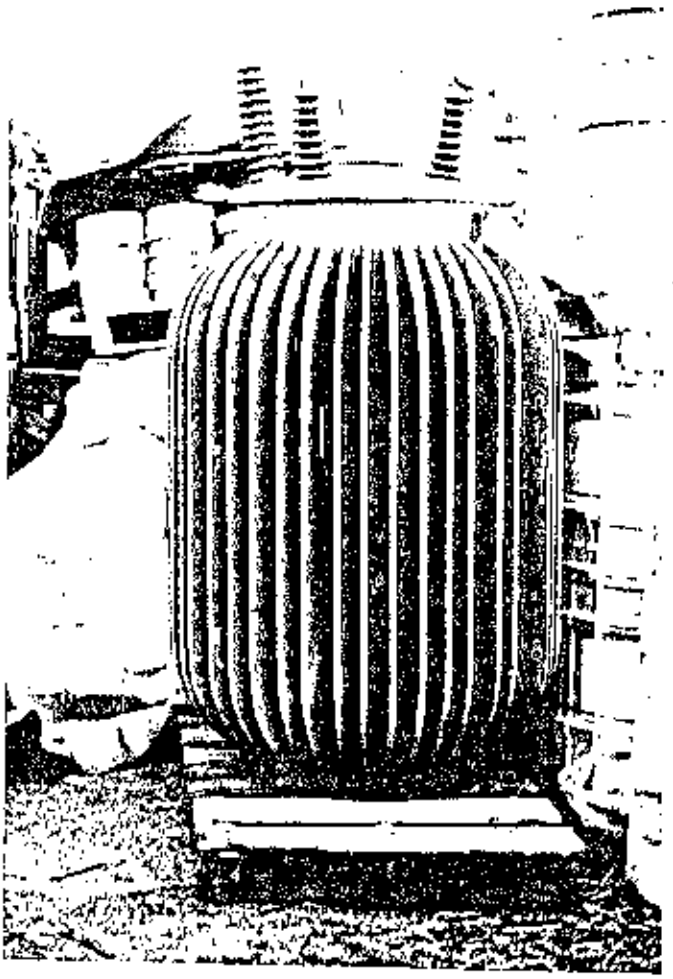


Photo #5

NW Cast Met Products

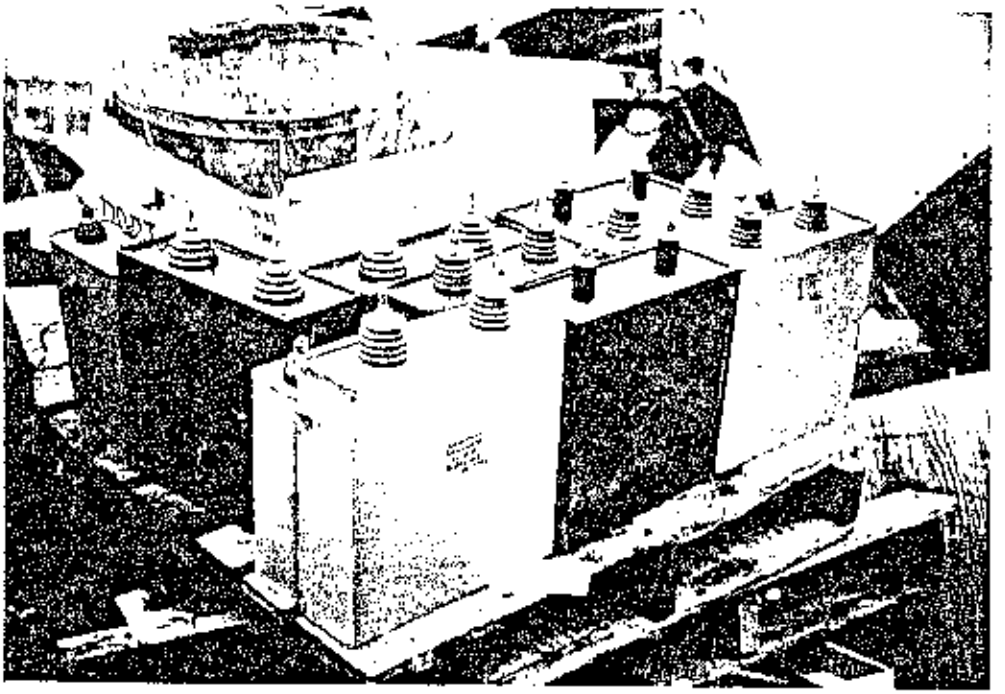


Photo #6

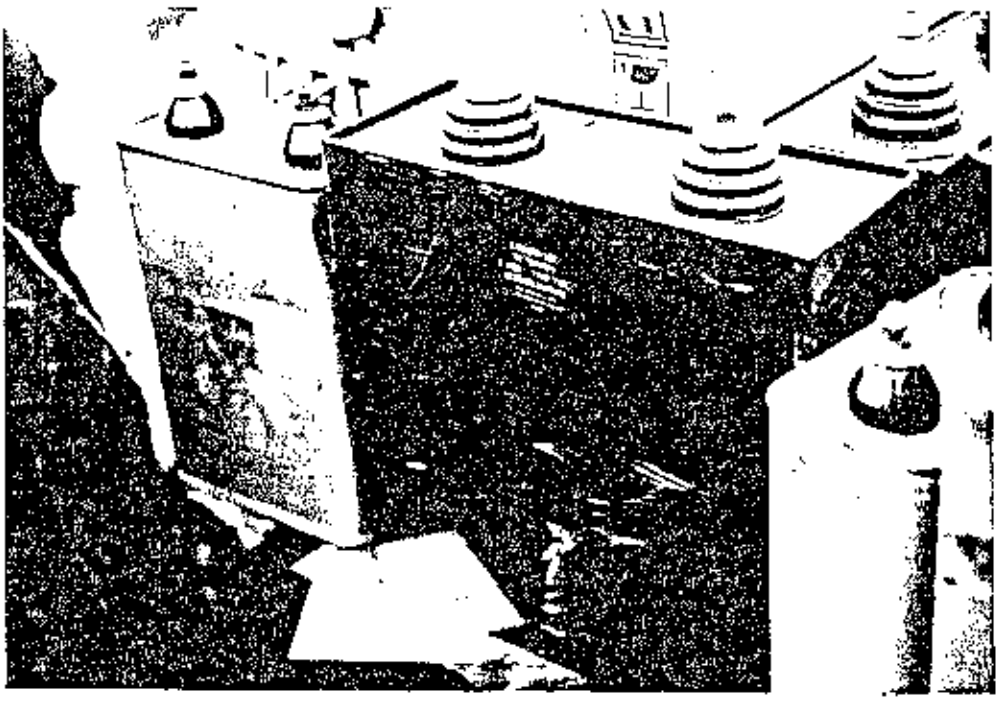


Photo #7

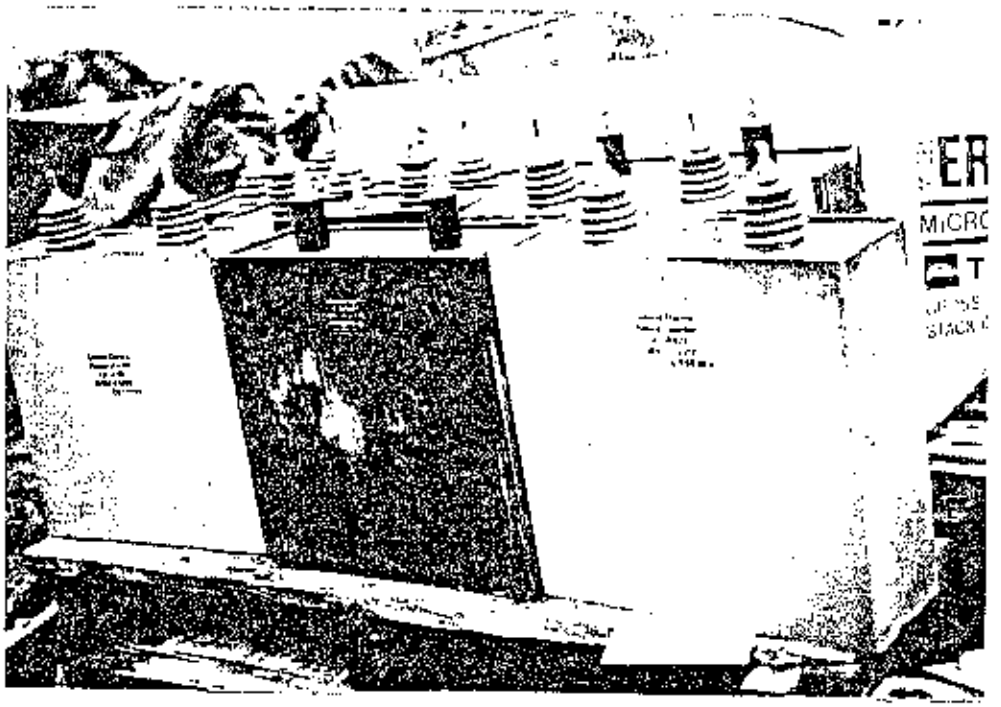


Photo #8

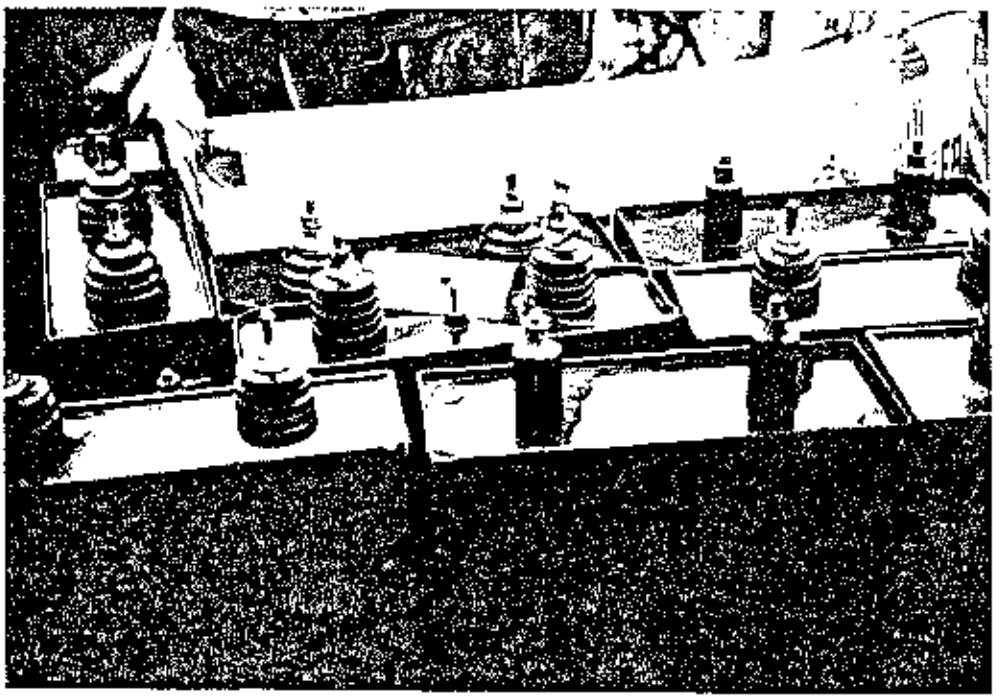


Photo #9

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION X

1200 SIXTH AVENUE

SEATTLE, WASHINGTON 98101

REPLY TO ATTN OF: Mail Stop 524

NOTICE OF INSPECTION UNDER THE TOXIC SUBSTANCES CONTROL ACT

Name of Firm: NW Cast metal Products Inc

Firm Address: PO Box 14807
Portland, OR
97214

Date Inspection Commenced: Dec. 9, 1981

Hour: 7 am

Reason for Inspection:

☒ For the purpose of inspecting (including taking samples, photographs and other inspection activities) premises in which chemical substances or mixtures or articles containing same are manufactured, processed or stored, or held before or after their distribution in commerce (including records, files, papers, processes, controls, and facilities) bearing on whether the requirements of the Act applicable to the chemical substances, mixtures or articles within or associated with such premises have been complied with.

☒ For the purpose of inspecting (including taking samples, photographs and other inspection activities) conveyances used to transport chemical substances, mixtures, or articles containing same in connection with their distribution in commerce (including records, files, papers, processes, controls and facilities) bearing on whether the requirements of the Act applicable to the chemical substances, mixtures or articles within or associated with the conveyances have been complied with.

☐ In addition, this inspection extends to (circle appropriate letters):

A) Financial data
B) Sales data
C) Pricing data
D) Personnel data
E) Research data

The nature and extent of the data to be inspected as specified in A through E above is as follows:

Name of Person to Whom Notice of Inspection Was Delivered:

Pete Haney

President

TITLE

Signature of EPA Employee:

Alan I Grahm

Plant Coordinator 12/9/81

TITLE & DATE

Dist: 1 cy Plant Manager
1 cy PCB Violation Coordinator
1 cy Inspector's Files

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION X

1200 SIXTH AVENUE

SEATTLE, WASHINGTON 98101

REPLY TO ATTN OF: Mail Stop 524

TSCA INSPECTION CONFIDENTIALITY NOTICE

Facility Inspected: NW Cast Metal Product

Date Inspected: Dec 9 1981

Address of Facility:

PO Box 14807

Portland, OR 97214

Name of person at the facility to whom this notice given:

Pete Haney

President

TITLE

Name of chief officer of business: Pete Haney

Name of EPA Inspector:

BT Goodman

Date mailed to chief officer: 12-9-81

It is possible that EPA will receive public requests for release of data and/or documents obtained by inspectors during inspection of the facility indicated above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FOIA), 5 U.S.C. 552, EPA regulations issued thereunder, 40 CFR Part 2, and the Toxic Substances Control Act Section 14. EPA is required to make documents available in response to FOIA requests unless the Administrator of the agency determines that the data or documents are exempt from disclosure.

Please provide us with a statement specifying any information obtained during our inspection you believe should be exempt from disclosure. This will facilitate the Agency's timely response to any public inquiries, and evaluation of your company's claim of confidentiality.

Your statement should be addressed to: Document Control Officer, Pesticides & Toxic Substances Branch, M/S 524, address above, and should reach this address no later than 30 days after your receipt of this notice. Failure to submit a written request that specified information be characterized as confidential, privileged, or exempt from disclosure within 30 days will be treated by EPA as a waiver of your claims for confidentiality regarding the inspection data. Any non-exempt data may be made available to the public without further notice to you.

12-9-81

date received by owner/operator

signature of Plant Manager

Dist: 1 copy Plant Manager
1 copy Chief Officer of Business
1 copy PCB Violation Coordinator
1 copy Inspector's Files

TSCA Notice of Inspection

Authority to Conduct Inspections

By authority of Section 11 of the Toxic Substances Control Act (15 USC 2601) an authorized representative of the Administrator of the United States Environmental Protection Agency may enter and inspect, at reasonable times, any establishment facility, or other premises in which chemical substances or mixtures are manufactured, processed, stored, or held before or after their distribution in commerce and any conveyance used to transport chemical substances, mixtures, or such articles in connection with distribution in commerce.

Scope of Inspections

Inspections conducted under Section 11 of the Toxic Substances Control Act (15 USC 2601) extend to all things within the premises or conveyance inspected (including records, files, papers, processes, controls, and facilities) bearing upon whether the requirements of the Toxic Substances Control Act applicable to the chemical substances or mixtures within the premises or conveyance have been complied with.

However, inspections shall not extend to the following types of data unless the nature and extent of such data are described with reasonable specificity in the written notice presented to the owner, operator, or agent in charge of the premises or conveyance:

1. financial data
2. sales data (other than shipment data)
3. pricing data
4. research data (other than research data required by the provisions of the Toxic Substances Control Act or under a rule promulgated thereunder)

Penalties for Failure to Allow Inspection

Section 15 of the Toxic Substances Control Act makes it unlawful for any person to fail or refuse to permit entry or inspection as required by Section 11 or to fail or refuse to permit access to or copying of records. Section 16 provides for both civil and criminal penalties for violations of Section 15. Section 17 authorizes specific enforcement, including the obtaining of an injunction to restrain any violations of Section 15.

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION 10

Site Name: PACIFIC MEAT COMPANY EPA ID#: ORD050185750

Alias Site Names: _____

Address: 2701 North Newark Street

City: Portland County or Borough: Multnomah State: OR

Report Type: SIP Report Date: 9-3-93 Report Lead: EPA

Report developed by: PRC Environmental Management, Inc.

DECISION:

|X| 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

|X| 1a. Site does not qualify for further remedial site assessment under CERCLA (Site Evaluation Accomplished - SEA)

| | 1b. Site may qualify for further action, but is deferred to: | | RCRA | | NRC

| | 2. Further Assessment Needed Under CERCLA: 2a. (optional) Priority: | | Higher | | Lower

2b. Activity Type: | | PA | | SI | | Removal Assesement | | Integrated Assessment | | Other: _____ | | ESI | | HRS evaluation

DISCUSSION/RATIONALE:

It is recommended that the remaining contaminated soil north of the stock barn and east of the tank house, and sludges in the sumps and drains be removed under the guidance of the appropriate regulatory authority.

No further Remedial Action is planned by the Federal Superfund Program.

Report Reviewed and Approved by: Monica Rolluda Signature: Monica Rolluda Date: 9-13-93

Site Decision Made by: Monica Rolluda Signature: Monica Rolluda Date: 9-13-93

EPA Form # 9100-3

Instructions: Use of EPA Form #9100-3

1) **Filling blanks and boxes using a wordperfect version of the form**: This is most easily done in the 'typeover' (or insert) mode in wordperfect. Begin by hitting the 'insert' key on your keyboard, move to the line or box desired, and begin typing. The boxes are set up to give bold characters, and the line characters ("_") ensure the form keeps a constant format. The form uses wordperfect version 5.1 and a 'universal scalable' font; you may need to revise printer setup to accommodate this. The diskette provided contains 2 versions of this form in Wordperfect 5.1 format (see point 2 below). These files have a write protection code.

2) **Discussion/Rationale Section:** The evaluator should enter comments as appropriate. To facilitate this, two versions of this form are provided in wordperfect files. Version "SA-DECIS.#1" contains the version found on the front side of this form. You can complete this form in writing or by using the 'typeover' mode when entering discussion text using wordperfect. Version "SA-DECIS.#2" has the exact same form, except the lines have been deleted from the discussion box. This box was created using 'Tables' in wordperfect 5.1, thus it can expand as new lines are added or scrolled within the box. The evaluator can simply enter text in the normal edit mode in wordperfect.

3) **Use of 'not applicable - (n/a)'**: This can be entered wherever appropriate. For example, in cases where EPA wants to re-evaluate a previous decision based on new information and no report applies, the evaluator may enter 'N/A' for "report type" and "report date". The Discussion/Rationale section should explain what new information supports EPA's decision.

4) **Signature Boxes**: When using this form to document report approval, the Regionally designated person responsible to review and approve a final report should sign and date the "Report Reviewed and Approved by" line. Otherwise, reviewers can choose to sign their approval directly on a report and eliminate the "Report Reviewed and Approved by" signature box from this form.

The person responsible for deciding what, if any, further site assessment is required should complete the 'Site Decision Made by' line (note that this can be the same person who reviewed and approved a report). All dates should reflect when an actual review or decision is complete. Only site decision dates, and not site assessment report dates, need to roughly correspond to CERCLIS entry dates.

Explanation of Entries

1) Site Name = same name as listed in CERCLIS
2) EPA ID = same as CERCLIS ID number
3) Alias site names = self explanatory
4) City, County or Parish, State = same as listed in CERCLIS
5) Report date = if applicable, date of final report associated with the site decision
6) SEA = Site Assessment Accomplished, the successor of No Further Remedial Action Planned (NFRAP)
7) RCRA = the Resource Conservation and Recovery Act (RCRA) program of EPA
8) NRC = the Nuclear Regulatory Commission
9) PA = Preliminary Assessment
10) SI = Site Inspection
11) SIP = Site Inspection Prioritization
12) ESI = Expanded Site Inspection
13) Regional Decision Team - a group of EPA Regional managers who evaluate the need for site assessment and response action at a site and formulate appropriate steps to address those needs.

PRC Environmental Management, Inc.
1411 Fourth Avenue
Suite 720
Seattle, WA 98101
206-624-2692
Fax 206-624-3679

PRC

September 3, 1993

Ms. Monica Rolluda
U.S. Environmental Protection Agency
1200 Sixth Avenue, Mail Stop HW-114
Seattle, Washington 98101

Subject: Site Inspection Prioritization-Level II
Pacific Meat Company, Portland, Oregon
EPA ID No. ORD 050185750
Work Assignment C1003910
Contract 068-W9-0009

Dear Ms. Rolluda:

PRC Environmental Management, Inc. (PRC) has completed a Level I site inspection prioritization (SIP) for the Pacific Meat Company in Portland, Oregon. The evaluation was based on a review of U.S. Environmental Protection Agency (EPA) and Oregon Department of Environmental Quality (DEQ) files.

Background

The Pacific Meat Company site is located at 4701 North Newark Street, in Portland Oregon (Figure 1). The 6.3-acre site consists of an asphalt parking lot, several buildings, and a raised, diked area that contains two unlined settling ponds (Figure 2). The site is bordered by the Columbia Slough to the north and industrial facilities to the west, south, and east.

The Pacific Meat Company operated a meat rendering plant at the site between 1946 and 1978, when Pacific Western Bank assumed ownership. Between approximately 1979 and 1981, the property was used for a metal salvaging operation by Peter Haney (deceased). Operations included salvaging gold from circuit boards, lead from diving weights, silver from photographic film, aluminum from aircraft parts, and other materials from electrical transformers and capacitors, electric motors, and miscellaneous machinery. In addition, surplus paints were acquired by Mr. Haney from the Department of Defense, and transformer oils from the Bonneville Power Administration. This oil was used as fuel for melting scrap aluminum. Mr. Haney also ran a smelter and plating facility at the site that produced heavy metal wastes including lead, mercury, antimony, cadmium, arsenic, and aluminum.

In 1986 the property was sold to the current owners, Charles and Benell Tindall and Randy Imes, who run a trucking business called Pelletrox, Inc. They have subleased parts of the property to other businesses that run tire recapping, oil recycling, salt recovery, fish meal storage, meat distribution, and plastering operations.

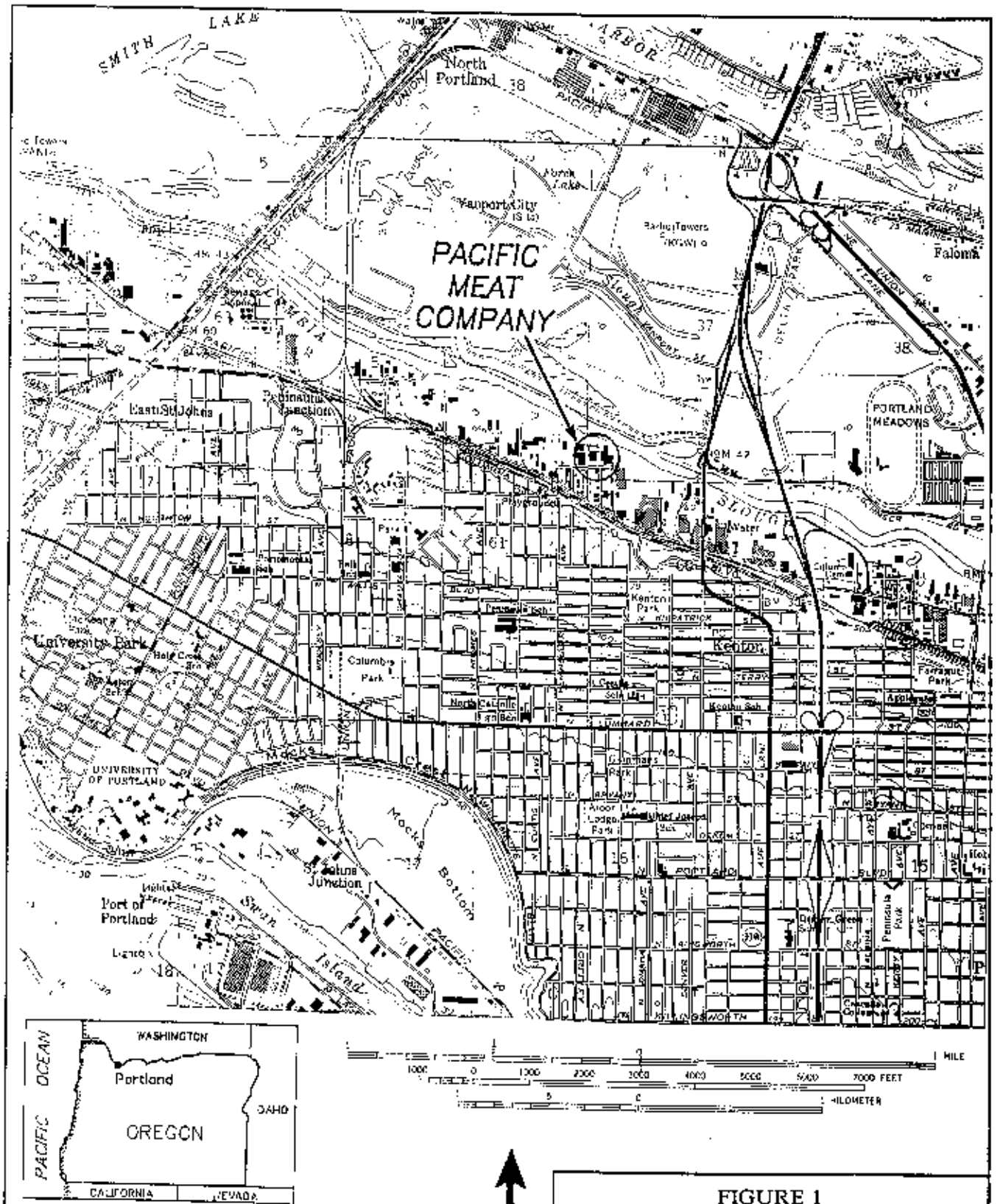


FIGURE 1

SITE LOCATION MAP
PACIFIC MEAT COMPANY
PORTLAND, OREGON

source: U.S. Geological Survey 1961

PRC Environmental Management, Inc.

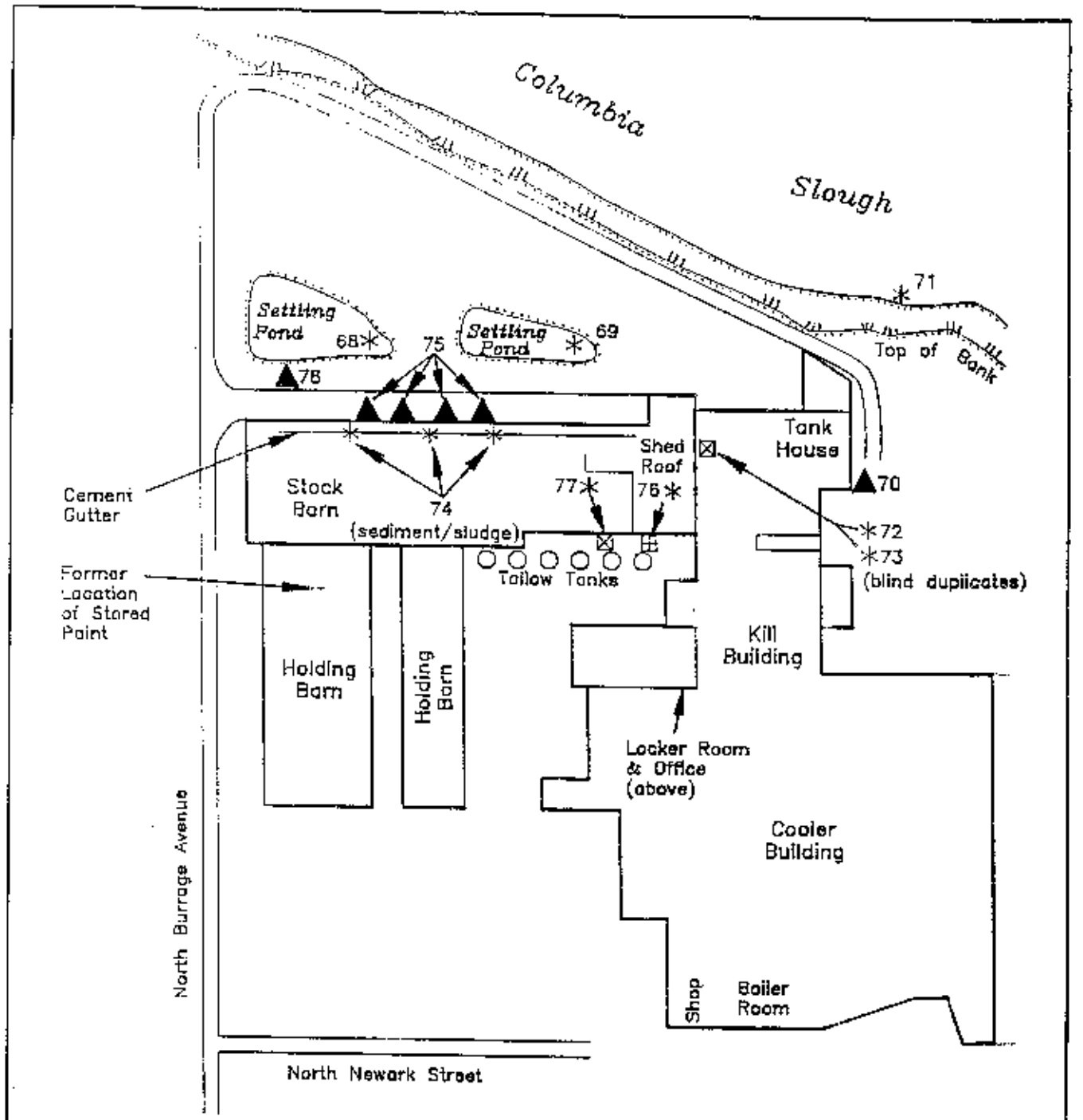


FIGURE 2

SITE MAP
WITH SAMPLING LOCATIONS
PACIFIC MEAT COMPANY
PORTLAND, OREGON

source: Ecology and Environment 1988

PRC Environmental Management, Inc.

Previous Investigations

In 1985 the property owner, Pacific Western Bank, hired Patrick W. Wicks, P.E. to conduct a site evaluation. During Mr. Wicks' evaluation, potentially hazardous materials were inventoried and samples were collected by Crowley Environmental Services. Drums, soil, and asphalt samples were analyzed for polychlorinated biphenyls (PCBs). Drum samples contained up to 62,000 milligrams per kilogram (mg/kg) PCBs, soil samples had up to 7,400 mg/kg PCBs, and asphalt samples contained up to 2 mg/kg PCBs. A report submitted following the analysis recommends excavation and removal of asphalt and soil where spillage was apparent in the roadway north of the stock barn (the most highly contaminated area). The report also states that, following excavation, one sample of soil from each of the two areas would be collected and the results reported to DEQ. The report further states that the other spillage areas at the site do not appear to warrant cleanup. Other planned removal included paints and related materials in the holding barns, and other chemicals and wastes inside and outside the buildings that are hazardous wastes or TSCA wastes.

Reidel Environmental Services conducted a non-Superfund cleanup in 1986; however, no post-removal report or results of verification sampling were found in the EPA or DEQ files.

Ecology and Environment (E&E) conducted a preliminary assessment in 1987 and a site assessment in 1988. Inspectors reported in 1988 that the site appeared to have been cleaned up after it was vacated by Peter Haney. The thousands of gallons of paint were no longer present and the smelter was gone. Two strips of asphalt had been removed north of the stock barn, and the settling ponds had been partially filled in and reduced to about one third of their former size. The type of fill materials used was not specified. E&E collected soil and sediment samples to determine if removal was adequate. Soil samples were collected in areas of former contamination, and sediments samples were collected from sumps, gutters, and an outfall on the slough. Samples were analyzed for PCBs, arsenic, lead, mercury, zinc, and aluminum only. Sampling results are presented in Table 1; sampling locations are shown in Figure 2. Significant sources of contamination identified during the assessment are discussed below.

Sources

Contaminated soils. The highest levels of PCBs and lead in soil were found in the roadway north of the stock barn. A composite soil sample collected from this area contained 72 mg/kg PCBs and 513 mg/kg lead (sample No. 75, Figure 2). A sample of stained soil collected east of the tank house contained 22.1 mg/kg PCBs and 109 mg/kg lead (sample No. 70).

Gutter and sumps. The concrete-lined gutter, which originally collected wastes from cattle, runs along the north side of the stock barn, under the building, and discharges into the settling ponds. Sediments in the gutter were sampled during the E&E site assessment and found to contain 145 mg/kg PCBs and 508 mg/kg lead, as well as an estimated value of 5 mg/kg mercury (sample No. 74). The sump under the tank house contained 11 mg/kg PCBs and 2,845 mg/kg lead (sample No. 73).

Settling ponds. The two unlined ponds drained into the slough until 1971, when they were connected to the sanitary sewer under Columbia Boulevard. Wastes from Mr. Haney's smelting operation inside the locker room were collected in underdrains that led to a sump under the tank house. The contents of the sump were periodically pumped into the eastern settling pond and

TABLE 1
SUMMARY OF SAMPLING RESULTS
FOR PCB, ARSENIC, LEAD, MERCURY, ZINC, AND ALUMINUM ANALYSES
Pacific Meat Company
Portland, Oregon
May 19,1988
(mg/kg (ppm))

Sample	PCB	As	Pb	Hg	Zn	Al
T8050468	1.0U	0.1U	213	.05U	1179	5994
-69	4.2	0.1U	522	.05U	2894	11342
-70	22.1	0.1U	109	.05U	89	4976
-71	1.2	0.1U	464	.05U	156	11112
-72	8.5	0.1U	1880	2.99J	3274	7123
-73	11.0	0.1U	2485	.05U	4239	7863
-74	145.0	0.1U	508	5.00J	5126	10879
-75	72.0	2.5	513	1.51J	2096	9641
-76	.4	0.1U	282	.05U	273	9589
-77	.6	0.1U	117	.05U	205	3301
-78	0.2U	93.3	46	.05U	127	17236

Notes:

1. Refer to Figure 2 for sample locations.
2. U indicates this analyte was analyzed for but not detected. Reported value is the detection limit.
3. J indicates an estimated quantity because the reported concentration did not meet quality control criteria.

source: E&E 1988

overflow went to the western settling pond. The old outfall from the ponds to the slough could not be located during the site assessment by E&E.

Storm sewer outfall. A storm sewer outfall that discharges into the slough near the eastern edge of the property drains a portion of the Pacific Meat Company site and the adjacent property to the east. Sediment samples collected at the outfall contained 1.2 mg/kg PCBs and 464 mg/kg lead.

Geology

Pacific Meat Company is located on the Columbia River flood plain physiographic subarea. The flood plain is underlain by recent to Quaternary Age alluvium (also referred to as younger alluvium), which is underlain by the Troutdale Formation form the early Pliocene.

The younger alluvium is less than 200 feet thick. The upper part is mostly fine sand, silt, and clay and generally does not yield large quantities of water. Below 100 feet, the alluvium contains more abundant and continuous layers of sand and gravel that are capable of yielding large quantities of water. Wells more than 100 feet deep, which penetrate the lower part of the younger alluvium, are reported to yield from several to more than 1,000 gallons per minute (gpm).

Generally, the groundwater in the alluvium is in direct hydraulic balance with the water in the Columbia River. The groundwater discharges to the river during periods of low flow and is recharged by the river during floods.

The Troutdale Formation underlying the recent alluvium has been identified as one of the major aquifers in the Portland area. The formation is typically well indurated and predominantly composed of coarse-grained clastic sediments (cobbles, gravels, sands). The Troutdale Formation is considered to be confined on a regional hydrogeologic scale.

Most wells in the vicinity of the site are less than 113 feet deep. The wells are typically screened in gravel layers at a depth of 50 feet or more. The well yields range from 75 to 2,000 gpm. The City of Portland supplies drinking water to the area from the central municipal water system. EPA's Geographic Information System (GIS) reports two public supply wells within 4 miles of the site, both about 1.5 miles from the site.

Potential Receptors

Pacific Meat Company is located on the shore of the Columbia Slough, which enters the Willamette River about 6 miles downstream of the site, which in turn enters the Columbia River in another half mile. Sensitive species habitat in these waters include the Chinook salmon (federally listed as threatened), and the Snake River sockeye salmon (federally listed as endangered) runs. Peregrine falcon (federally listed as endangered) habitat is also found in the area. The GIS reports a total of 1,032 acres of wetlands within 4 miles of the site. The two public supply wells located about 1.5 miles from the site serve a combined population of 2,600, according to GIS.

Recommendations

No further action by the Superfund program is recommended at this site; however, the available data suggest that significant contamination remains. Contaminated soils north of the stock barn

and east of the tank house, and sludges in the sumps and drains should be removed under the guidance of the appropriate regulatory authority. No sampling by EPA is recommended at this time, although any sampling conducted in conjunction with cleanup of the site should include analysis for dioxins, PCBs, as well as target analyte list total metals. Volatile and semivolatile organic compounds analysis should also be considered because of the wide array of activities conducted at the site.

Information Sources

DEQ 1987. Preliminary Assessment, Pacific Meat Company. Oregon Department of Environmental Quality. September 18.

Ecology and Environment, Inc. 1987. Preliminary Assessment Report, Pacific Meat Company. Prepared for the U.S. Environmental Protection Agency. September 18.

Ecology and Environment, Inc. 1988a. Site Assessment Final Report for: Pacific Meat Company. August.

Ecology and Environment, Inc. 1988b. Memorandum: Preliminary Assessment Reassessment/Preliminary HRS Score for Pacific Meat Company, Portland, Oregon. March 24.

Wicks, Patrick, H., P.E. 1985. Evaluation of Potential Hazardous Materials Contamination and Cleanup Plan at Pacific Meat Company, Portland, Oregon. Prepared for Western Pacific Bank. September.

The contact persons for the facility are:

Charles Tindall or Benell Tindall at
Pacific Meat Company or Pelletrox, Inc.
2701 North Newark Street
Portland, Oregon
503/285-2626

A Comprehensive Environmental Restoration, Compensation, and Liability Act/National Priority List eligibility checklist is attached. Please contact me or Mary Bandrowski at 624-2692 if you have any questions about this SIP.

Sincerely,

Julie Howe

Julie Howe
Site Manager

cc: Mary Bandrowski, Project Manager, PRC

EPA REGION 10
CERCLA/NPL ELIGIBILITY CHECKLIST
(CHECK ALL THAT APPLY)
SITE NAME: Pacific Meat Company DATE: 8/13/93

- PETROLEUM EXCLUSION
  - ☐ exempt wastes present
- NRC
  - ☐ a federally licensed facility
- PESTICIDE SITE
  - ☐ legal application of pesticides in vicinity
- INDOOR AIR POLLUTANTS
  - ☐ present
- METHANE
  - ☐ present
- FEDERALLY PERMITTED RELEASE
  - ☐ present (specify-
- MINING SITE
  - ☐ excluded waste (see 54 FR 15316)
- AGGREGATION ISSUES
  - ☐ ground-water plumes - likely sources identified
  - ☐ sediment contamination - likely sources identified
  - ☐ non-contiguous areas of concern
  - ☐ other (specify-
- RCRA
  - ☐ protective filer
  - ☐ non-notifier
  - ☐ convertor
  - ☐ generator or transportor
  - ☐ late filer
  - ☐ permit issued before HSWA (1984)
  - ☐ owner bankrupt
  - ☐ unwilling (see 53 FR 30005)
  - ☐ inability to pay (see 53 FR 30002)
  - ☐ TSD (give status and dates)

☒ NONE APPLY

PRC Environmental Management, Inc.
1411 Fourth Avenue
Suite 720
Seattle, WA 98101
206-624-2692
Fax 206-624-3679

PRC

September 3, 1993

MEMORANDUM

SUBJECT: Site Inspection Prioritization-Level I
Pacific Meat Company, Portland, Oregon
Work Assignment C1003910
Contract 068-W9-0009

TO: Monica Rolluda, EPA

FROM: Julie Howe, PRC

PRC Environmental Management, Inc. (PRC) has completed a Level I site inspection prioritization (SIP) and hazard ranking system (HRS) PREscore for the former Pacific Meat Company site in Portland, Oregon. The facility is currently owned by Charles and Bennell Tindall and Randy Imes. A score of 21.74 was calculated based on an observed release to sediments in the Columbia Slough.

Waste Quantity

The PCB and lead-contaminated soils were estimated to total 5,000 square feet. The settling ponds were estimated to measure 2,000 square feet, combined. Ten cubic yards of contaminated sediments were estimated to be in the cement gutters and sumps. Contaminated sediments at the outfall were estimated to total 10 cubic yards.

Groundwater Migration Pathway

A score of 2.42 was calculated for the groundwater pathway. There are two drinking water wells reported by the EPA's Geographic Information System (GIS) within 4 miles of the site. Both wells are approximately 1.5 miles from the site and serve a combined population of 2,600. Since the apparent direction of groundwater flow is toward the bordering slough, the threat to groundwater resources is minimal. The City of Portland supplies water to residents and businesses in the vicinity of the site.

Surface Water Migration Pathway

A pathway score of 42.84 was calculated for the surface water migration pathway, based on an observed release at a storm water outfall discharging to the Columbia Slough. This outfall discharged surface water runoff from the site and the adjacent property to the east, which was identified as Doug Bjerke Food Service, Inc.

According to the Fish and Wildlife Service, the Peregrine falcon and Snake River sockeye salmon, both federally listed endangered species, and Chinook salmon, a federally listed threatened species, live in the area of the site. Ten miles of wetlands frontage was estimated for scoring.

The GIS reported an annual fish production of 3 million pounds in the 8.5-mile Columbia River segment and an estimated 22,000 pounds in the one-half mile Willamette River segment. Fish production in the 6-mile Columbia Slough segment was assumed to be 10,000 pounds per year; no data were available from the Department of Fish and Wildlife for this waterway. No fish were assigned to the contaminated segment since the sample was collected very close to the outfall pipe.

According to the GIS, no public water supply intakes draw surface water within the target distance limit.

Air Migration Pathway

Evaluation of the air migration pathway resulted in a pathway score of 7.0. There are contaminated soils within 2 feet of the surface. The nearest residence is approximately one-fourth mile from the site. Based on the number of small businesses that lease portions of the site, 30 workers were estimated. Target populations by distance ring were obtained from the GIS database as follows:

0 - 1/4 mile	4
1/4 - 1/2 mile	891
1/2 - 1 mile	6,727
1 - 2 miles	26,845
2 - 3 miles	29,389
3 - 4 miles	28,190

Wetlands acreage by distance ring was reported by GIS map at 1,032 acres within 4 miles of the site. The Peregrine falcon, a federally listed endangered species lives in the vicinity of the site.

Soil Exposure Pathway

A soil exposure pathway score of 0.61 was calculated based on an attractiveness and accessibility value of 10, for an area accessible, but having no public recreation use. In the absence of information in the site file regarding the number of workers at the site, 30 workers were assumed to be present.

Summary

The surface water pathway score was based on the contaminated sediment sample collected in 1988 by Ecology and Environment at the outfall pipe in the Columbia Slough. Because of the high concentration of industry in the area and because tides affect the surface water flow direction, it is not possible to attribute the sediment contamination to releases from the Pacific Meat Company with certainty.

Because the apparent direction of groundwater flow is toward the slough, the threat to groundwater resources is minimal. Contaminated soils and sediments in gutters and sumps remain at the site and should be remediated under the appropriate regulatory authority.

Site Address: Pacific Meat Company or Pelletrox, Inc.
2701 North Newark Street
Portland, Oregon
503/285-2626

Site Contact: Charles Tindall or Benoll Tindall

Information Sources

Information used to score this site was derived from the following documents:

DEQ 1987. Preliminary Assessment, Pacific Meat Company. Oregon Department of Environmental Quality. September 18.

Ecology and Environment, Inc. 1987. Preliminary Assessment Report, Pacific Meat Company. Prepared for the U.S. Environmental Protection Agency. September 18.

Ecology and Environment, Inc. 1988a. Site Assessment Final Report for: Pacific Meat Company. August.

Ecology and Environment, Inc. 1988b. Memorandum: Preliminary Assessment Reassessment/Preliminary HRS Score for Pacific Meat Company, Portland, Oregon. March 24.

EPA 1993. Superfund Site Discovery Query System listing for Pacific Meat Company. U.S. Environmental Protection Agency. February 16.

Wicks, Patrick, H., P.E. 1985. Evaluation of Potential Hazardous Materials Contamination and Cleanup Plan at Pacific Meat Company, Portland, Oregon. Prepared for Western Pacific Bank. September.

HRS DOCUMENTATION RECORD
Pacific Meat Co. - 08/20/93

1. Site Name: Pacific Meat Co.
   (as entered in CERCLIS)

2. Site CERCLIS Number: ORD050185750

3. Site Reviewer: Howe

4. Date: 06/15/93

5. Site Location: Portland, Oregon
   (City/County,State)

6. Congressional District:

7. Site Coordinates: Unknown

   Latitude: Longitude:

	Score
Ground Water Migration Pathway Score (Sgw)	2.42
Surface Water Migration Pathway Score (Ssw)	42.84
Soil Exposure Pathway Score (Ss)	0.61
Air Migration Pathway Score (Sa)	7.00

Site Score	21.74

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

WASTE QUANTITY

Pacific Meat Co. - 08/20/93

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: roadway spill areas

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

WASTE QUANTITY

Pacific Meat Co. - 08/20/93

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	roadway spill areas	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	5000.00
e. Source Volume/Area Value	1.47E-01	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.47E-01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Aluminum	< 2	NO	9.6E+06	ppm
Arsenic	< 2	NO	0.0E+00	ppm
Asbestos	< 2	NO	2.5E+03	ppm
Bis (2-ethylhexyl) phthalate	< 2	NO	0.0E+00	ppm
Cyanide	< 2	NO	0.0E+00	ppm
Dichlorobenzene, 1,2-	< 2	NO	0.0E+00	ppm
Dioxane, 1,4-	< 2	NO	0.0E+00	ppm
Hydrazine	< 2	NO	5.1E+05	ppm
Iron	< 2	NO	1.5E+03	ppm
Mercury	< 2	NO	0.0E+00	ppm
Nitrobenzene	< 2	NO	7.2E+04	ppm
PCBs	< 2	NO	0.0E+00	ppm
Trichlorophenol, 2,3,6-	< 2	NO	2.1E+00	ppm
Zinc	< 2	NO	0.0E+00	ppm

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: east settling pond

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	east settling pond	
b. Source Type	Surface Impoundment	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal)	0.00	Source Area (ft2): 2000.00
e. Source Volume/Area Value	1.54E+02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.54E+02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Aluminum	< 2	NO	1.1E+07	ppm
Lead	< 2	NO	5.2E+05	ppm
PCBs	< 2	NO	4.2E+03	ppm
Zinc	< 2	NO	2.9E+06	ppm

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: cement gutter

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	cement gutter	
b. Source Type	Other	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	10.00	0.00
e. Source Volume/Area Value	4.00E+00	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	4.00E+00	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Aluminum	< 2	NO	1.1E+07	ppm
Lead	< 2	NO	5.1E+05	ppm
PCBs	< 2	NO	1.4E+05	ppm
Zinc	< 2	NO	5.1E+06	ppm

WASTE QUANTITY

Pacific Meat Co. - 08/20/93

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE:

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

WASTE QUANTITY

Pacific Meat Co. - 08/20/93

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		
b. Source Type	Drums	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	0.00
e. Source Volume/Area Value	0.00E+00	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	0.00E+00	

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	roadway spill areas	GW-SW-SE-A	1.47E-01	0.00E+00	1.47E-01
2	east settling pond	GW-SW-SE-A	1.54E+02	0.00E+00	1.54E+02
3	cement gutter	GW-SW-SE-A	4.00E+00	0.00E+00	4.00E+00
4			0.00E+00	0.00E+00	0.00E+00

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+04	100	32
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	100	32
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	100	320
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	100	320
SW: GW to SW, DW	Tox./Persistence	1.00E+04	100	32
SW: GW to SW, HFC	Tox./Persis./Bioacc.	1.00E+04	100	32
SW: GW to SW, Env	Etox./Persis./Bioacc.	1.00E+04	100	32
Soil Exposure:Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	1.00E+04	100	32

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER MIGRATION PATHWAY SCORESHEET
Pacific Meat Co. - 08/06/93

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: shallow		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	5
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	160
3. Likelihood of Release	550	160
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+04
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	32
Targets		
7. Nearest Well	50	5.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.90E+01
8d. Population (lines 8a+8b+8c)	**	2.90E+01
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	3.90E+01
12. Targets (including overlaying aquifers)	**	3.90E+01
13. Aquifer Score	100	2.42
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	2.42

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Pacific Meat Co. - 08/20/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	0
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	250
3. Potential to Release by Flood		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d+3c)	500	250
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	32
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Pacific Meat Co. - 08/20/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	1000	320
Targets		
18. Food Chain Individual	50	2.00E+01
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	3.44E-02
19d. Population (lines 19a+19b+19c)	**	3.44E-02
20. Targets (lines 18+19d)	**	2.00E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	42.74

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Pacific Meat Co. - 08/20/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	100
25. Waste Characteristics	1000	320
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	4.75E-02
26d. Sensitive Environments (lines 26a+26b+26c)	**	4.75E-02
27. Targets (line 26d)	**	4.75E-02
28. ENVIRONMENTAL THREAT SCORE	60	0.10
29. WATERSHED SCORE	100	42.84
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	42.84

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
Pacific Meat Co. - 08/06/93

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10
4. Waste Characteristics	100	18
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	5.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	5.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	4.95E+04

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
Pacific Meat Co. - 08/06/93

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	1.00E+01
13. Area of Contamination	100	2.00E+01
14. Likelihood of Exposure	500	5.00E+00
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	100	18
Targets		
18. Nearby Individual	1	1.00E+00
19. Population Within 1 Mile	**	4.00E+00
20. Targets (lines 18+19)	**	5.00E+00
21. NEARBY POPULATION THREAT SCORE	**	4.50E+02
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.61

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
Pacific Meat Co. - 08/06/93

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	390
2b. Particulate Potential to Release	500	0
2c. Potential to Release	500	390
3. Likelihood of Release	550	390
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+04
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	32
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.60E+01
8d. Population (lines 8a+8b+8c)	**	2.60E+01
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	2.70E-01
10c. Sens. Environments(lines 10a+10b)	***	2.70E-01
11. Targets (lines 7+8d+9+10c)	**	4.63E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	7.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

Pacific Meat Co.
ORD050185750

12/15/88

Sent 1 copy of the TAT report (9/88) to the property owners:

Charles & Benell Tindall
3606 N. Newark St.
Portland, Oregon 97217

(503) 285-2626

12/19/88

Sent 1 copy of the 9/88 TAT report on Pacific Meat Co. to Jim Benedict (Attny. working for lein holder)

Jim Benedict
Schwabe Williamson
1700 PacWest Center
Portland, OR 97204

(503) 222-9981

Michelle Anderson
12/20/88

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OREGON OPERATIONS OFFICE
522 S.W. 5TH AVENUE
YEON BUILDING, 2ND FLOOR
PORTLAND, OREGON 97204

REPLY TO ATTN OF: 000

NOV 25 1985

Mr. Douglas Leeding
Pacific Western Bank
Mortgage Banking Group
P.O. Box 22352
Milwaukie, OR 97222

Dear Mr. Leeding:

I have discussed with the Oregon Department of Environmental Quality your company's willingness to clean up property now owned by Pacific Western Bank which has been contaminated with PCB's and other wastes. The property is located at 2701 N. Newark Street and was formerly Pacific Meat Products.

This site was recently added to EPA's CERCLIS list of potential hazardous waste sites. However, we cannot review your cleanup proposal at this time because of our limited staff resources and the large number of sites currently being evaluated. EPA encourages responsible parties to fund and manage cleanup activities and understands that you have been working with the Oregon Department of Environmental Quality on the proposed plan.

We would advise your company to prepare and carry out your remedial action plan according to the National Contingency Plan, 40 CFR Part 300, and the guidance offered in the Federal Guidance Removal Investigations under CERCLA (May, 1985) and the Guidance on Feasability Studies under CERCLA (April, 1985). Generally, if you work with the Oregon Department of Environmental Quality on developing a cleanup program, ship hazardous wastes only to a licensed treatment, storage, or disposal facility, and conduct adequate sampling and follow-up monitoring to verify that all contaminated materials have been removed to an acceptable level, the cleanup should be acceptable. EPA will review the site conditions at some point in the future to determine if it should be removed from the CERCLIS list or if further action will be necessary.

If you have any questions, please contact me at 221-3250.

Sincerely,

Chip Humphrey

Chip Humphrey
Hazardous Waste Program Coordinator

cc: EPA, Superfund Branch
DEQ, Hazardous and Solid Waste Division
DEQ, Northwest Region

PRC Environmental Management, Inc.
1411 Fourth Avenue
Suite 720
Seattle, WA 9810
206-624-2692
Fax 206-624-3679

PRC

August 20, 1993

Ms. Monica Rolluda
U.S. Environmental Protection Agency
1200 Sixth Avenue, Mail Stop HW-114
Seattle, Washington 98101

Subject: Site Inspection Prioritization-Level I
Pacific Meat Company, Portland, Oregon
EPA ID No. ORD 050185750
Work Assignment C1003910
Contract 068-W9-0009

Dear Ms. Rolluda:

PRC Environmental Management, Inc. has completed a site inspection prioritization (SIP) for the Pacific Meat Company site in Portland, Oregon.

Enclosed are the SIP report and a Comprehensive Environmental ~~Restoration~~ Response, Compensation, and Liability Act/National Priority List eligibility checklist. Please contact me or Mary Bandrowski at 624-2692 if you have any questions about this SIP.

Sincerely,

Julie Howe

Julie Howe
Site Manager

Enclosures (2)

cc: Peter Rubenstein, EPA Regional Project Officer (without enclosures)
Gary Sink, EPA Work Assignment Manager (without enclosures)
Mary Bandrowski, PRC Project Manager

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

August 30, 1993

Reply to
Attn of: HW-114

Julie Howe
PRC Environmental Management, Inc.
1411 Fourth Avenue, Suite 720
Seattle, Washington 98101

Re: SIP Level I
Pacific Meat Company, Portland, OR (ORD050185750)
SIP Work Assignment

Dear Ms. Howe:

The SIP Level I report and preliminary HRS score for the above mentioned site have been received and reviewed. Following are Agency comments.

Cover letter. For future submittals, please review the definition of the acronym CERCLA. The letter "R" stands for Response, not Restoration. I will make the necessary correction on this submittal.

Site Background, Previous Investigations, page 4, paragraph 3. It is mentioned that "the settling ponds had been partially filled in....." If information is readily available, please describe further the type of fill material used.

HRS letter, Groundwater Migration Pathway, page 1. Slight change to fourth sentence suggested; "Since the apparent direction of groundwater flow is toward the bordering slough, the threat to groundwater resources is minimal." Same change is suggested on last paragraph of page 2. Also, please submit page 1 on PRC letterhead.

If you have any further questions, I can be reached at (206) 553-0323.

Sincerely,

Monica Rolluda

Monica Rolluda
Site Assessment Manager

cc: Gary Sink, EPA
Mary Bandrowski, PRC

PRC Environmental Management, Inc.
1411 Fourth Avenue
Suite 720
Seattle, WA 98101
206-624-2692
Fax 206-624-3679

PRC

September 3, 1993

Ms. Monica Rolluda
U.S. Environmental Protection Agency
1200 Sixth Avenue, Mail Stop HW-114
Seattle, Washington 98101

Subject: Site Inspection Prioritization-Level I
Pacific Meat Company, Portland, Oregon
EPA ID No. ORD 050185750
Work Assignment C1003910
Contract 068-W9-0009

Dear Ms. Rolluda:

Enclosed is the revised site inspection prioritization (SIP) report for the Pacific Meat Company site in Portland, Oregon. Comments provided by EPA (letter dated August 30, 1993) have been incorporated into the report. Please contact me or Mary Bandrowski at 624-2692 if you have any questions about this SIP.

Sincerely,

Julie Howe

Julie Howe
Site Manager

Enclosures (1)

cc: Joanne Leibau
Peter Rubenstein, EPA Regional Project Officer (without enclosures)
Gary Sink, EPA Work Assignment Manager (without enclosures)
Mary Bandrowski, PRC Project Manager

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

September 13, 1993

Reply to
Attn of: HW-114

Charles Tindall & Bennell Tindall
Pelletrox, Inc.
2701 North Newark Street
Portland, Oregon 97217

Re: Property located at 2701 North Newark Street, Portland, OR
(a.k.a. Pacific Meat Company)

Dear Sirs:

The U.S. Environmental Protection Agency (EPA), through its contractor, PRC Environmental, Inc. (PRC), completed a Site Investigation Prioritization (SIP) report for the above subject site. A copy of the SIP report is enclosed. Based on this review, EPA finds it appropriate to refer to state authority for further consideration. Accordingly, EPA does not anticipate further investigation under the Federal Superfund Program.

Based on information contained in the SIP report, it is recommended that the remaining contaminated soil north of the stock barn and east of the tank house, and sludges in the sumps and drains be removed under the guidance of the appropriate regulatory authority.

If you have any questions, I can be reached at (206) 553-0323.

Sincerely,

Monica Rolluda

Monica Rolluda
Environmental Protection Specialist
Superfund Response & Investigations Branch

Enclosure

cc: Heather Schijf, ODEQ-ECD
Alan Goodman, EPA-OOO
Multnomah County Environmental Health

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

September 13, 1993

Reply to
Attn of: HW-114

Julie Howe
PRC Environmental Management, Inc.
1411 Fourth Avenue, Suite 720
Seattle, Washington 98101

Re: SIP Level II
Pacific Meat Company, Portland, Oregon
EPA ID# ORD050185750 (SIP Work Assignment)

Dear Ms. Howe:

Response to Agency comments regarding the SIP report completed for the above subject site have been received and reviewed. The SIP report is now considered final.

If you have any further questions, I can be reached at (206) 553-0323.

Sincerely,

Monica Rolluda

Monica Rolluda
Site Assessment Manager

cc: Gary Sink, EPA
Mary Bandrowski, PRC

Sent a copy of this to Chuck Clinton, (DEQ) 10/31/85 & called him) at approx. 10:30 AM.

TELEPHONE USE REPORT

TO BE USED ON ALL LONG DISTANCE TELEPHONE CALLS, INCOMING OR OUTGOING, AND ANY LOCAL CALLS MERITING RECORDING

PREPARE IMMEDIATELY - SUBMIT DAILY

ROUTING

~~Stamp~~

Title

CALL FROM: Chip Humphrey

TITLE: OOO

LOCATION & PHONE NO.:

DATE: 10/29/81

TIME:

CALL TO: Debbie Flood

TITLE: Superfund Branch

LOCATION & PHONE NO.: EPA - Region X

Re: Pacific Meat Company

SUMMARY OF CALL:

I notified Debbie that DEQ wants to begin clean-up work at this site next week. A copy of the contamination report and clean-up plan was forwarded to the Regional Office on 9/30/85. DEQ wants to know if EPA will be providing comments on the plan.

Debbie discussed the site with Phil Millam, SF Branch Chief, and advised me that EPA did not intend to provide comments on the plan* ; that DEQ should proceed using NCP guidelines.

*at this time

Chip Humphrey
(Signature)

EPA-000
cc Hazardous w
11/13

VICTOR ATIYEH
Governor

Department of Environmental Quality

522 S.W. FIFTH AVENUE, BOX 1760, PORTLAND, OREGON 97207 PHONE: (503) 229-5696

November 8, 1985

RECEIVED
NOV 1 9 1985
OREGON OPERATIONS OFFICE
EPA-REGION 10

Mr. Douglas H. Leeding
Senior Vice President
Pacific Western Bank
Mortgage Banking Group
P. O. Box 22352
Milwaukie, OR 97222

Re: HW-Pacific Meat Co. Site
Multnomah County

Dear Mr. Leeding:

This letter is in response to your letter dated September 24, 1985 and follow-up of our telephone conversation on October 17, 1985. As we discussed, the cleanup plan you submitted for the Pacific Meat Co. site at 2701 Newark Street in Portland is acceptable to the Department with some minor modifications. These modifications are that more sampling should be done after the cleanup is completed and sampling should be conducted in the area where it appeared that paint solvents had leaked or spilled. As I mentioned in the telephone conversation, the site by the stock barn, which has the coding S7,C4, and F8 should have four samples taken and the site identified as S6 should have at least two samples taken. The number of samples in the solvent spill area would depend on the size of the area.

After the results of these samples are obtained, they should be analyzed statistically to verify that the concentration of PCB is less than ten parts per million. I don't understand this statement.

Your cleanup plan was forwarded to the Environmental Protection Agency for their review. They were called to determine if they had a response and they indicated that they would not be responding at this time. Therefore, please be advised that they may require additional cleanup at some later date.

The Department appreciates your efforts in voluntarily cleaning up this site. If you have any questions concerning this cleanup, feel free to give me a call at 229-6955.

Sincerely,

Charles R. Clinton
Regional Supervisor
Northwest Region

CRC:y
RY2028
cc: Hazardous & Solid Waste Division, DEQ
EPA - Oregon Operations Office

DEQ-2

EPA

PACIFIC WESTERN BANK

MORTGAGE BANKING GROUP
P.O. Box 22352
Milwaukie, OR 97222
503/653-3375

September 24, 1985

Dept. of Environmental Quality
RECEIVED
SEP 30 1985
NORTHWEST REGION

Ms. Janet Gilaspie
Northwest Regional Office of the
Department of Environmental Quality
P.O. Box 1760
Portland, Oregon 97207

Re: 2701 Newark Street, Portland, Oregon

Dear Ms. Gilaspie:

In April 1985 I contacted your office regarding the procedures and policies regarding the identification and potential clean-up of hazardous waste on the above-referenced property. Since that time we have worked with Crowley Environmental Services and Patrick H. Wicks, P.E. Consultants in hazardous waste management in Bellvue Washington to identify what, if any, hazards there may be and how that waste could be disposed.

Enclosed is a report prepared by Patrick H. Wicks, P.E. describing his investigation of the site, identification of certain materials and an action plan for the clean-up of those materials whose level of toxicity exceed an amount described by the Environmental Protection Agency.

We are anxious to clean up the entire site, including non-toxic waste, as soon as possible therefore we request your quick approval of the clean up plan. Should you have any questions please do not hesitate to call.

Cordially,

PACIFIC WESTERN BANK

Douglas H. Leeding
Senior Vice President

DHL/da

cc: Patrick Wicks
Kevin Sheehy